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Talantov, Dimitri

Mazumder, Abhijit

<120> METHODS AND REAGENT FOR THE DETECTION OF MELANOMA

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cccagcgacg acgccaccgc gttatgacc gacccaagc tcattacctg gtctccggtg 240
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ctgtctcaag ggcccagctg tgcctagggc gcccctcta cccggctgc ttggcagttg 420
cagtgtctgt gtctcggggg ggttttcac tatgagggtg ttctctaa acctacgagg 480
gaggaaacc ttgatttac agaaaatacc acctcgagat gggtgctggt cctgttgatc 540
ccagtctctg ccagaccaag gcgagtt 567

<210> 36

<211> 165

<212> DNA

<213> Homo sapiens

<400> 36

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 ggaggataaa gtcagccatg tgagcactgg ggggtgtgcc agtttgagc tcctggaagg 120
 taaagtcctt cctgggggtgg atgctctcag caatathtag tactt 165

<210> 37

<211> 481

<212> DNA

<213> Homo sapiens

<400> 37

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 tgctgttggg ggcagtgact tcttttgagt taggttaata aatcaagcca tagagcccct 180
 cctggttgat acttgttcca gatggggcct ttggggctgg tagaaatacc caacgcacaa 240
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 caatgactgc ttgttttga tgcctcagcc caggtcagct gttactttct ttcagatgtt 360
 tatttgcaa caaccatttt ttgtctgtg tcccttttaa aaggcagatt aaaagcacia 420
 gcgtgtttct agagaacagt tgagagagaa tctcaagatt ctacttggtg gtttgcttgc 480
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<210> 38

<211> 461

<212> DNA

<213> Homo sapiens

<400> 38

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 gaaggaggag ggtcagggtt ggccttcctc tctgcatcac tctgtaggt tgggggcccc 180
 cgaccaccca tacctacgcc tagggagccc gtctccagt attccgtctg tagcaggagc 240
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 ttctctttt tttttttgc cacattggca gagatgggac ctaagggtcc caccctcac 360
 cccaccccca cctcttctgt atgtttgaat tcttcagta gctgttgatg ctggttgagc 420
 aggtttgagt caaattgtac ttgtcccat tgttaattga g 461

<210> 39

<211> 479

<212> DNA

<213> Homo sapiens

<400> 39

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 gtgctctcca acctgtcttc ctgaaaaacc aaggccccct tccccacct ctccatggg 180
 gtgagacttg agcagaacag gggcttcccc aagttgcccc gaaagactgt ctgggtgaga 240
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 ccatggctgg tcatgagagc aaaccgtagt cccctggaga cagccactcc agagaacctc 420
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<210> 40

<211> 529

<212> DNA

<213> Homo sapiens

<400> 40

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aagcagtctg agggcctcac caaggagtac gaccgcttgc tggaggagca cgaaagctg 120
caggctgcag tagatggtcc catggacaag aaggaagagt aagggcctcc ttctcccct 180
gcctgcagct ggcttcacc tggcactgc ctgctgcttc ctgagagccc ggcctctccc 240
tccagtactt ctgtttgtgc ccttctgctt ccccatctcc ctccacagc tcatagctcg 300
tcattcggc cctgtccac actctccaag cacattacag gggacctgat tgctacacgt 360
tcagaatgag ttgtctgca tctgcttgg cctggccagg cctggcacag ccttggttc 420
cacgcctgag cgtggagagc acgagttagt ttagtccgg cttgcggtgg ggctgacttc 480
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<210> 41

<211> 195

<212> DNA

<213> Homo sapiens

<400> 41

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tccccctgta gactagtgcc gtgggagtac ctgctgcca gctgctgtgg cccctccgt 60
gatccatcca tctccaggga gcaagacaga gacgcaggat ggaagcgga gttcctaaca 120
ggatgaaagt tccccatca gtccccccag tacctccaag caagtagctt tccacattg 180
tcacagaaat cagag                                     195
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<210> 42

<211> 301

<212> DNA

<213> Homo sapiens

<400> 42

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gcaatgtcac aacctctctg atcttgtgct cagcatgatt cttaataaga agttttattt 120
ttcgtgcact ctgctaata tgtgggtgag ccagtggaa agcgggagcc tgtgctggtt 180
tgcagattgc ctctaataa cgcggctcaa aaggaaacca agtggtcagg agttgtttct 240
gaccactga tctctactac cacaaggaaa atagtttagg agaaaccagc ttctactgtt 300
t                                     301
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<210> 43

<211> 562

<212> DNA

<213> Homo sapiens

<400> 43

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ccagaagagc agcttcacag tagactgcag caaagcaggc aacaacatgc tgctggtggg 180
ggttcattgc ccaaggacc cctgcgagga gatcctggtg aagcacgtgg gcagccggct 240
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gcacgagcac atcccaggca gcccctaccg cgttgtggtg cctgagctt ggggcccgtg 360
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ccccggccca ggccgcccctg gccgcccgc tgctactgca gctgcccctg cctgtgccg 480
tgctgcgctc acctgcctcc ccagccagcc gctgacctct cggctttcac ttgggcagag 540
ggagccattt ggtggcgtg ct                                     562
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<210> 44
 <211> 333
 <212> DNA
 <213> Homo sapiens
 <400> 44

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gccaa gcaca cccaggagaa ctgtgagacc tgggggtgtaa atggtgagac gggactttg   60
gtggacatga aggaactggg catatgggag ccattggctg tgaagctgca gactataag   120
acagcagtgg agacggcagt tctgctactg cgaattgatg acatcgtttc aggccacaaa   180
aagaaaggcg atgaccagag cgggcaaggc ggggctcctg atgctggcca ggagtgagtg   240
ctaggcaagg ctacttcaat gcacagaacc agcagagtct ccccttttcc tgagccagag   300
tgccaggaac actgtggacg tctttgttca gaa                               333
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<210> 45
 <211> 411
 <212> DNA
 <213> Homo sapiens
 <400> 45

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gtgtctgttg ctgatgcctc aaaaagtgtg caggctcga ctctgaagac agagttcctg   60
ccgtccttaa gtgtgtcatt tgtctcagag aacagcgctg tggctgctgg ccatgactgc   120
tgccaatgc tctttatcta cgatgaccgc ggctgectga ccttcgtctc caagttagat   180
attccaaaac agagcatcca acgcaacatg tctgcatgg aacgcttcg caacatggac   240
aagagagcca caactgagga ccgcaacacg gccttgagga cgctgcacca gaatagcatc   300
actcaagtct ctatttatga ggtggacaag caagattgtc gcaaattttg cactactggc   360
atcgatggag ccatgacaat ttgggatttc aagaccctcg agtcttccat c           411
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<210> 46
 <211> 411
 <212> DNA
 <213> Homo sapiens
 <400> 46

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ccgtccttaa gtgtgtcatt tgtctcagag aacagcgctg tggctgctgg ccatgactgc   120
tgccaatgc tctttatcta cgatgaccgc ggctgectga ccttcgtctc caagttagat   180
attccaaaac agagcatcca acgcaacatg tctgcatgg aacgcttcg caacatggac   240
aagagagcca caactgagga ccgcaacacg gccttgagga cgctgcacca gaatagcatc   300
actcaagtct ctatttatga ggtggacaag caagattgtc gcaaattttg cactactggc   360
atcgatggag ccatgacaat ttgggatttc aagaccctcg agtcttccat c           411
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<210> 47
 <211> 555
 <212> DNA
 <213> Homo sapiens
 <400> 47

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cgctcgcccg cacagtgcc cccgtgtca ctgggatcac ctctgtgt ggaggccaga   120
gtgaggagga ggcgtccatc aacctcaatg ccattaacaa gtgccccctg ctgaagccct   180
gggccctgac ctctctctac ggccgagccc tgcaggcctc tgccctgaag gcctggggcg   240
ggaagaagga gaacctgaag gctgcgcagg aggagtatgt caagcgagcc ctggccaaca   300
gccttgctg tcaaggaaag tacactccga gcggtcaggc tggggctgct gccagcgagt   360
ccctcttctg ctctaaccac gcctattaag cggaggtgtt cccaggctgc cccaacaac   420
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tccaggccct gcccccctcc actcttgaag aggaggccgc ctctcgggg ctccaggctg 480
 gcttccccgc gctctttctt cctcgtgac agtggtgtgt ggtgtcgtct gtgaatgcta 540
 agtccatcac ccttt 555

<210> 48

<211> 550

<212> DNA

<213> Homo sapiens

<400> 48

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 atggcacagg aggaaagagc atctacggtg agcgcttccc cgaatgagaac ttaaactga 120
 agcactacgg gcctggctgg gtgagcatgg ccaacgcagg caaagacacc aacggctccc 180
 agtttctcat cagcacagtc aagacagcct ggctagatgg caagcatgtg gtgtttggca 240
 aagttctaga gggcatggag gtggtgcgga aggtggagag caccaagaca gacagccggg 300
 ataaacccct gaaggatgtg atcatgcag actgcggcaa gatcgagggtg gagaagccct 360
 ttgcatcgc caaggagtag ggcacaggga catctttctt tgagtaccg tctgtgcagg 420
 ccctgtagtc cgccacaggg ctctgagctg cactggcccc ggtgctggca tctggtggag 480
 cggaccact ccctcacat tccacaggcc catggactca ctttgaac aaactcctac 540
 caacactgac 550

<210> 49

<211> 198

<212> DNA

<213> Homo sapiens

<400> 49

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 tacggtgagc gttccccga tgagaacttc aaactgaagc actacgggcc tggctgggtg 120
 agcatggcca acgcaggcaa agacaccaac ggctccagt tcttcatcac gacagtcaag 180
 acagcctggc tagatggc 198

<210> 50

<211> 493

<212> DNA

<213> Homo sapiens

<400> 50

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 tacctccaag tggtaacagg actgatgccg aaatgtcacc aggtccttfc agtcttcaca 120
 gtggagaact ctggccaaa gggttttggg gggaggagga ggaaaccagc ttcttggtta 180
 aggttaacac cagatggtgc cctcattgg tgccttta aaaaatattt actgtagtcc 240
 aataagatag cagctgtaca aaatgactaa aatagattgt aggatcatat ggcgtatata 300
 ttggttcata tcaaaatca gagactgagc ttgaaacta gtggttttta atcaaagttg 360
 gctttatagg aggagtataa tgtatgactt actgttttaa aagaattagt gtgagtgtgt 420
 tttgtatga atgagccat tcatggttaag tcttaagctt gttggaaata atgtacccat 480
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<210> 51

<211> 509

<212> DNA

<213> Homo sapiens

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 <222> (226)..(226)
 <223> n is a, c, g, or t
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 <222> (243)..(243)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (245)..(246)
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 <221> misc_feature
 <222> (248)..(249)
 <223> n is a, c, g, or t
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 ctttagaagt gacgtgtaat ttctgaacce atgtttcatc tgtataaaag aacatctgca 120
 ccagtttttc tctgtccctc cagaagagcc aaactttgag tttatgtct gttgtgcatt 180
 gataaatttc aataaatctt ttatataaan tnnaaaaaaa aaaaanannn nannannnnn 240
 aananncnna ttgatctttt caagatgcat tccagatgaa ctgctagggtg agggggaagc 300
 ttcatttttg ttacctgata gaatagcttt tcttatgaga tatatataat gtgatactat 360
 gtttgatata ttttggtctt aaagcaagac tcagtgggtg atcttcatta aaagcttcct 420
 ttaaaaaagt tacagagtta ctaaaaaac aagtacccaa acaatcaagt tgggccaacc 480
 ttggaacctt gtttgaata tctttcatt 509
 <210> 52
 <211> 453
 <212> DNA

<213> Homo sapiens

<400> 52

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atttccaag tctcttgggt tgggtggaag gctgtggctg gtctcagttt gggtactcaa 120
tgcccaggag gggctgagca ccagccatat cttttgcttt gggtcacatg atgatacctg 180
cttttctcag gcctgctaga ggcatccaac gccctgggtt gtaaatagca acctaaaggc 240
gtattttggc actggctctg ggacattccc catctctcat ccttttccc ccttcacaga 300
tggtggtggg ctctgctcta caaagaggac tctgatgtta ctcttgagct tatgagccag 360
agagctgaaa accgcaggct tggtgtgtta agttacaagg aaaatggatt tggtaattaa 420
aattagaaga aacacacctt caaactcaa ctt 453
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<210> 53

<211> 398

<212> DNA

<213> Homo sapiens

<400> 53

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gagtgccttc gagtgcgagg cgagggtgct cctgacgcta agagcttcgt gctgaacctg 120
ggcaaagaca gcaacaacct gtgcctgcac ttcaaccctc gttcaacgc ccacggcgac 180
gccaacacca tcgtgtgcaa cagcaaggac ggcggggcct gggggaccga gcagcgggag 240
gctgtcttcc cctccagcc tggaaagtgt gcagaggtgt gcatcacctt cgaccaggcc 300
aacctgaccg tcaagctgcc agatggatac gaattcaagt tcccaaccg cctcaacctg 360
gaggccatca actacatggc agctgacggt gacttcaa 398
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<210> 54

<211> 446

<212> DNA

<213> Homo sapiens

<400> 54

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agcaggagcc agggagtaac gaagagatca aagagttcgc cgcgggctac aacgtcaaat 120
tcgatatgtt cagcaagatc tgcgtgaacg gggacgacgc ccaccgctg tggaaagtga 180
tgaagatcca acccaagggc aagggcaccc tgggaaatgc catcaagtgg aacttcacca 240
agttcctcat cgacaagaac ggctgcgtgg tgaagcgcta cggacccatg gaggagcccc 300
tggtgataga gaaggacctg ccccaactat tctagctcca caagtgtgtg gccccgccc 360
agccccctgc cagcccttg gagccttcca ccggcactca tgacggcctg cctgcaaac 420
tgctggtggg gcagaccga aatcc 446
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<210> 55

<211> 456

<212> DNA

<213> Homo sapiens

<400> 55

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tttgaggaa acatcaagct ggagcacaac atgtggaact actgtactt cattgtgctg 120
gtccgctga agaacaagac cgactacacg ggccctgaga gctacgtggc ccagatgac 180
aagaacaaga acctggactg gtcccccg atgcgggcca tgtccctgt cagcaatgag 240
ggcgaggggg agcagaatga gattcggatt ctccaggaca agctcaactc caccatgaag 300
ctggtgtccc acctcactgc ccagctcaac gagctcaagg agcagatgac ggagcagcgg 360
aaacgcaggc aacgcctagg ctttgtggat gtccagaact gcattagccg ctgaggagag 420
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ccaccgaagg ccccaacagg ggatgctcat cactgg 456

<210> 56

<211> 510

<212> DNA

<213> Homo sapiens

<400> 56

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aactcttgt agtctcctt gtgggtagtt aagagtgggg tcaccttt aactccaagc 180
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gccaccccg gcattggctc aggtggcctg gtgactccat gatggacgat cttgtccca 420
ggacctgcct ctcccaggc ttctgggga agagttgtac gccaggcaa caaggctga 480
gctgcgttg cgtggctgt tcatgaccg 510

<210> 57

<211> 522

<212> DNA

<213> Homo sapiens

<400> 57

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tgctgtgctg gaattcaca gggaccagg ccaccgagg ggactgtctc agaagactg 120
attttccgt cctttttt ccactcca ctgacaaacg tccccagcg ttccacttg 180
tgggttcag gtgtttcaa gcacaacca ccacaacaag caagtgcatt ttcagtctt 240
gtgttttt gtgtgtgt aactgttac taattaaag atgtgtcgg caccatgtt 300
atttattcc agtgcctg ctgagcctg ctgtctcgg tggcgcagg gccatgctg 360
ctccctgtgt gtgtcccag cagcgaggc catccactgt gacgtcgcc gaccagctg 420
gacacctct gccagtaat gacgtgtgt gctgggacct tcttattct gtgtaatgg 480
ctaactgtt aactgggct ggggtggga ggggttctg gc 522

<210> 58

<211> 356

<212> DNA

<213> Homo sapiens

<400> 58

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tcttaggcat tctaaaatt caagaaaata aaactaagct ctttgagaac tgcttctaag 180
atgccagcat atactgaagt ctttctgtc accaaattg tacctctaag tacatatga 240
gatattgtt tctgtaata acctatttt ttctctatt ctctccaatt tgttaaaga 300
ataaagtcca aagtctgac tggctagtt aacctagaag tattttgtc tcttag 356

<210> 59

<211> 381

<212> DNA

<213> Homo sapiens

<400> 59

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 ctctagtggg acagcccaga gcctggctgc cccatcatgt ggccccaccc aatcaaggga 180
 agaaggagga atgctggact ggaggcccct ggagccagat ggcaagaggg tgacagcttc 240
 ctttcctgtg tgtactctgt ccagttcctt tagaaaaaat ggatgccag aggactccca 300
 accctggctt ggggtcaaga aacagccagc aagagttagg ggccttaggg cactgggctg 360
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<210> 60

<211> 441

<212> DNA

<213> Homo sapiens

<400> 60

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 gacaccctgg atccggccct gctacggcca ggacggctgg accgtaaaat tgaattcca 180
 cttctgacc gccgccagaa gagattgatt ttctccacta tcaactagcaa gatgaacctc 240
 tctgaggagg ttgacttga agactatgtg gcccgccag ataagattc aggagctgat 300
 atcaactcca tctgtcagga gagtggatg ttggctgtcc gtgaaaaccg ctacattgtc 360
 ctggccaagg acttcagaa agcatacaag actgtcatca agaaggacga gcaggagcat 420
 gagttttaca agtgacctt c 441

<210> 61

<211> 442

<212> DNA

<213> Homo sapiens

<400> 61

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 gaggaagggc tctgacaca cagcgaggaa gagctggaac acagccagga cacagacgcg 120
 gatgatgggg ccttgacgta agcagcctga caggagcaat ggccaccagc aggtgaaggg 180
 catcgtgcc ccaggcctca agccgggcac ccaaccctgg atgccacccc ccagcgggta 240
 ccagaggaaa gctggcagca ggcgcctct ccccaacgc atccagcca gtgccatgtc 300
 ctctgcaggt ggagtactg gcctactct tcccatgag cctcctctgt ctgcactgcc 360
 caggccagag ggtagagcac aggggttcc ccatactacc tcccctccc aggacactcc 420
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<210> 62

<211> 524

<212> DNA

<213> Homo sapiens

<400> 62

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 tgcttggtgc tgaatctgct aaactgaata atcaggctcg ctttatctta gagaaaatag 120
 atggcaaaat aatcattgaa aataagccta agaaagaatt aattaaagt ctgattcaga 180
 ggggatatga ttcggtcct gtgaaggcct ggaagaagc ccagcaaaag gtccagatg 240
 aagaagaaaa tgaagagat gacaacgaaa aggaaactga aaagagtac tccgtaacag 300
 attctggacc aacctcaac tatctcttg atatgccct ttgtattta accaaggaaa 360
 agaaagatga actctgcagg ctaagaaatg aaaaagaaca agagctggac acattaaaaa 420
 gaaagagtc atcagatttg tggaagaag acttggtac atttattgaa gaattggagg 480
 ctgttgaagc caaggaaaa caagatgaac aagtcggact tcct 524

<210> 63
 <211> 416
 <212> DNA
 <213> Homo sapiens
 <400> 63

gagggacat gtgtcacttg tgccttgctc ttgtccacg tgtctccac ttgcatatg 60
 agccgtgaac tgtgcatagt gctgggatgg aggggagtgt tgggcatgtg atcacgcctg 120
 gctaataagg ctttagtgta tttatttatt tatttatttt atttgTTTT cttcatccc 180
 attaatcatt tccccataac tcaatggcct aaaactggcc tgacttgggg gaacgatgtg 240
 tctgtatttc atgtggctgt agatcccaag atgactgggg tgggaggtct tgctagaatg 300
 ggaagggtca tagaaagggc cttgacatca gtcccttgt gtgtactcac tgaagcctgc 360
 gttggtccag agcggaggct gtgtgcctgg gggagttttc ctctatacat ctctcc 416

<210> 64
 <211> 556
 <212> DNA
 <213> Homo sapiens
 <400> 64

tacagcgtat aggtgcagcc ctgtcacaac accaacagaa gtagcagcct ctgggtgcag 60
 tcaccacac cccaaagctg gaaggatctg gtccaacata gcacaaacc ttaggaaaaa 120
 tgaaattaac atcactgatg tgtaatccag taaaatctcc cttttcggg tgtgtatgtg 180
 ggcattgtgcc catttctatg tgtgtgtcta cgtgcagctc actaccaaca gcctcatgtg 240
 cacttgacct gacagtgtc gctgagaact ctaccaggt tggcgccctga atgccttact 300
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 gctggttggg acctctacag cttcattctt tcacattaaa tagtgacctt ttccagtatt 420
 ttccctcttc cctttataa attatgctaa agccacaaag cacattttt gggatcatag 480
 aaggttgggg ttccagaaag gcatctgtgt gatggttcca ttgatgtggg atttcctac 540
 ttgctgtatt ctacgt 556

<210> 65
 <211> 453
 <212> DNA
 <213> Homo sapiens
 <400> 65

ttggggata ggtctcatct cttcaggctc tcatgatacc accttactg tgcctatttt 60
 ttaagaaaa aagtgttgat caaccattcg acctataaga agccttaatt tgcacagtgt 120
 gtgacttaca gaaactgcat gaaaaatcat gggccagagc ctggcccta gcattgcact 180
 tggcctcatg ctggagggag gctgggcggg tacagcgagg aggaggagg aggccaggcg 240
 ggcatggcgt ggaggaggag ggaggccggg cggtcacagc atggaggagg agggaggcgc 300
 tgctggtgtt cttattctgg cggcagcgc ttctctgcca tgtttagtga atgacttttc 360
 tcgacttgta gaattgtata tagactctgg tttctattg ctgagaagca aaccgccctg 420
 cagcatccct cagcctgtac cggtttggt ggc 453

<210> 66
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (360)..(361)

<223> n is a, c, g, or t

<400> 66

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caatgggaag cccgggggag gggtttggca tgaggaagcg ttggttacag cagctgattg   120
gctgcagcca agactgtgaa aggataaaga ggcgcgaggc ggaattgggg tctgctctaa   180
gctgcagcaa gagaaactgt gtgtgagggg aagaggcctg ttctgctgtc ggtctctag   240
ttctgcacg ctctttaaga gtctgcactg gaggaactcc tgccattacc agctcccttc   300
ttgcagaagg gagggggaaa catacattta ttcattgccag tctgttgcag gcaggctttn   360
nggcttccta ccttgcaaca aaataattgc accaactcct tagtgccgat tccgccaca   420
gagagtcctg gagccacagt ctttttgct ttgcattgta ggagagggac taagtgctag   480
agactatgtc gctttctga gctaccgaga gcgctcgtga actggaatca act           533
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<210> 67

<211> 408

<212> DNA

<213> Homo sapiens

<400> 67

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gtaaaccaca tctttttgc actttttta taagcaaaaa cgtgccgttt aaaccactgg   60
atctatctaa atgccgatt gagttcgca cactatgtac tgcgttttc attctgtat   120
ttgactattt aatccttct actgtctgct aatatataatt gtttagtct tatggcatga   180
tgatagcata tgtgttcagg tttatagctg ttgtgtttaa aaattgaaaa aagtggaaaa   240
catctttgta catttaagtc tgtattataa taagcaaaaa gattgtgtgt atgtatgttt   300
aatataacat gacaggcact aggacgtctg ctttttaag gcagttccgt taagggtttt   360
tgtttttaa ctttttttg ccatccatcc tgtgcaatat gccgtgta           408
```

<210> 68

<211> 526

<212> DNA

<213> Homo sapiens

<400> 68

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ccctttggtc tgggtccagt tctggaaaac agtcagggtc agctgatcta cgagtctgcc   60
atcacctgtg agtacctgga tgaagcatac ccagggaaga agctgttgcc ggaatgacccc   120
tatgagaaag cttgccagaa gatgatctta gattgtttt ctaagggtgcc atccttggtta   180
ggaagcttta ttagaagcca aaataaagaa gactatgctg gcctaaaaga agaatttcgt   240
aaagaattta ccaagctaga ggagggtctg actaataaga agacgacctt ctttggtggc   300
aattctatct ctatgattga ttacctatc tggccctggt ttgaacggct ggaagcaatg   360
aagttaaatg agtgtgtaga ccacactcca aaactgaaac tgtggatggc agccatgaag   420
gaagatccca cagtctcagc cctgcttact agtgagaaag actggcaagg ttcttagag   480
ctctacttac agaacagccc tgaggcctgt gactatgggc tctgaa           526
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<210> 69

<211> 432

<212> DNA

<213> Homo sapiens

<400> 69

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gccacagact gaactcgcag ggagtgcagc aggaaggaac aaagacaggc aaacggcaac   60
gtagcctggg ctactgtgc tggggcatgg cgggatcctc cacagagagg aggggaccaa   120
ttctggacag acagatgttg ggaggataca gaggagatgc cacttctcac tcaccactac   180
cagccagcct ccagaaggcc ccagagagac cctgcaagac cacggaggga gccgacatt   240
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gaatgtagta ataggcaggg ggcctgccca ccccatccag ccagacccca gctgaacct 300
 gcgtcagggg cctagaggtg gagttcttag ctatccttgg ctttctgtgc cagcctgget 360
 ctgccccccc cccatgggct gtgtcctaag gccatttga gaagctgagg ctagtccaa 420
 aaacctctcc tg 432

<210> 70
 <211> 450
 <212> DNA
 <213> Homo sapiens
 <400> 70

gaattttctg gtgattacag gtgggatcca actgcaaatg aagatccaga atggatactt 60
 gttgagaaag acagattcgt gaatgattat gacaaagata acgatggcag gcttgatccc 120
 caagagctgt taccttgggt agtacctaata aatcagggca ttgcacaaga ggaggcactt 180
 catctaattg atgaaatgga tttgaatggt gacaaaaagc tctctgaaga agagattctg 240
 gaaaacccgg acttgtttct caccagtga gcccacagatt atggcagaca gtcctatgat 300
 gactatttct atcatgatga gctttaatct ccgagcctgt ctcagtagag tactggctcc 360
 tttataatt tgttaccagc ttacttttg tgataaaata ttgatgtgt attttacact 420
 cttaagtctt aaccacagtc agaattatct 450

<210> 71
 <211> 477
 <212> DNA
 <213> Homo sapiens
 <400> 71

gatatttttc caaacgtatt gagcaacaaa atattaatat tgtgcatat gacaacaaag 60
 tctttcttaa atactccatc tgttagtac tgtattgtgg aatattgag ttctatttcc 120
 agacttgaaa acatggagga ttttagagat gcctgaacaa tattatttaa gtagtatgtg 180
 accgagctat aaatttttg ttttgttct aagtagattt aatttgggaa ctgacaggac 240
 aatgttttta ggtttagcat ttgtttaaa aacctttaa gaaaccttta gaaggactta 300
 gacctcacat attaatgttg agaagttctg cttaatttta aaatggtttc tataaagggt 360
 tttattgtat gaaatagaac ttatatatt tgcataatga tagaggataa ttatatata 420
 tgtataacta tagcattatg gtgagtgga tttgacattg tccaaacctt ttctatt 477

<210> 72
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (432)..(432)
 <223> n is a, c, g, or t
 <400> 72

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 ccagctgcgg atgggagctg ttcttgaca gccttctact gcctgggaag tgatggaaca 120
 ggaactcagg gtgcccttac cccctccca gacctgttcc ctttcttga ctgacagagc 180
 accatccagg caaaataga gcgcctaatg gttttcttct caatctttaa gcagtatacc 240
 ttccacagg ctgctctgtg tccctgccac tctgagttat ccagaaacca ccacctaca 300
 atgaggggac tcactagaa gaccttaag gtccctttt ggctctgagg ggtctctaat 360
 aatccccact tgaattcag caccgaagg aaattatggg tatgtgagcc ataatatgat 420

ggccagcagg tngcgtgcc ttccacccat ggtgatggat ggtttgaaa gggaaatgtg 480
gtgccttttg tgccaca 497

<210> 73

<211> 481

<212> DNA

<213> Homo sapiens

<400> 73

gatgataatc cggaccatgc tgtatactcc acaggaaatg aaacagatca ttaaaatccg 60
tgcccagacg gaaggaatca acatcagtga ggaggcactg aaccacctgg gggagattgg 120
caccaagacc aactgaggt actcagtga gctgctgacc ccggccaact tgcttgctaa 180
aatcaacggg aaggacagca ttgagaaaga gcatgtcgaa gagatcagt aacttttcta 240
tgatccaag tctccgcca aaatcctggc tgaccagcag gataagtaca tgaagtgaga 300
tggtgaggt ttacagcagc aagagactcc ccagggtgtc ctggcctggg tccagcctgt 360
gggcgttgc ccttgggctt ggggtgccc tccccactca ggcgtgggct gcagcgtgt 420
cagttcagt tggaagcat ttcttttaa gttatcgtaa ctgttcctgt gggtgcttg 480
a 481

<210> 74

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (40)..(40)

<223> n is a, c, g, or t

<400> 74

gacatccttc ttagcagaaa ctcatgaaa aagttttgn ctgacacaga acaaacctga 60
aagtagtadc tactttctaa atactacttt gctttcagt agtggattg atatttataa 120
tgttctctaa agcttgcaac ttttcagca acgttataaa atagattaac ctggaataac 180
ttacttggtt gctgctaaaa tactcaagat ttgcccatt ttaacaacc agtcctgtg 240
atacaacttt gaaaaaact ttaaaaatct ctgatgtatg ggctctttt tcccataag 300
aattatgtac atctgtgatg ttttacaggg ggatccgctt ttaaacagtg tacatattgg 360
accacactga aatgtcatat atcctttctc tacttaaaat tggttattta ctgtgagttc 420
atttccgatg tgttcttggt tgttgcctgt ttctgcctga agacgtgta 469

<210> 75

<211> 455

<212> DNA

<213> Homo sapiens

<400> 75

caaagtctcc ttttagtcta gataatcatt atttcattt aaaattagt ttttcatag 60
tttgactga tgcgtgtatg gatgtgtgtg agtcagtgt agcttattta aaaagcacct 120
tatcctttct cccataacct ttgtacacta aaaaatgaaa gaatttagaa tgtatttgat 180
gatagcattc tcaactagac acatgagaat ttaactttat aaccgcgtga gtaagattt 240
aattcatagg ttttgatgtc attgttgaag ttattttaa ttcagaaacc ttgcttgtgt 300
gatacatagt aagtctcttc atttattact gcttgcctgt tgttatatct ggattatcaa 360
aagcaatagt gcaccaatta agatgtgtc aaatcaggac ttaaatcata ggcaccacat 420
ttttcatgtc agactagtta cttgttgat tctca 455

<210> 76
 <211> 525
 <212> DNA
 <213> Homo sapiens
 <400> 76

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tctggcatca gtttgetaca gtgagctcac atcaaatagg aaaatacttg aaatgcatgt 60
ctcaagctgc aaggcaaact ccattcctca tattaacta ttacttctca tgacgtcacc 120
attttaact gacaggatta gtaaacatt aagacagcaa acttgtgtct gtctcttctt 180
tcatttccc cgccaccaac ttactttacc acctatgact gtacttgta gtatgagaat 240
tttctgaat catattgggg aagcagtgt tttaaacct caagtttta aacatgattt 300
atatgtctg tataatgttc agtttgaac ttttaaaag ttggatgta tagaggata 360
aataggaaat ataagaattg gttattggg ggcctttta ctactgtat taaaaatac 420
aagggtattg atatgaaatt atgtaaatt caaatgctta tgaatcaaat cattgtgaa 480
caaaagattt gttgctgtgt aattattgtc ttgtatgcat ttgag 525
```

<210> 77
 <211> 397
 <212> DNA
 <213> Homo sapiens
 <400> 77

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ggagaacttg tctacaacca gggattgatt ttaagatgt cttttttat ttactttt 60
ttaaagcacc aaatttgtt gttttttt tctccctcc ccacagatcc catctcaat 120
cattctgta accaccattc caacaggtcg aggagagctt aaacaccttc ttctctggc 180
ctgtttctc tttattttt tatttttcg catcagtatt aatgttttg catactttgc 240
atctttatc aaaagtgtaa actttcttg tcaatctatg gacatgccca tatatgaagg 300
agatgggtgg gtcaaaaagg gatatcaaat gaagtgatag gggtcacaat ggggaaattg 360
aagtggtgca taacattgcc aaaatagtg gccacta 397
```

<210> 78
 <211> 329
 <212> DNA
 <213> Homo sapiens
 <400> 78

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ctcttcgaga gaacctgtcg ccagtatgac aagctgcgta agcggggaggc cttcctggag 60
cagttccgca aggaggacat gttcaaggac aactttgatg agatggacac atccaggag 120
attgtgcagc agctcatcga tgagtacat gcggccacac ggccagacta catctcctgg 180
ggcaccagg agcagtgagt cccccaggac aggggacct catctgcctt actggttggc 240
ccaagccctg cctgactgac caccctca gagcacagat caggagacct acgcactct 300
ttctatata catggactct ctgttgccc 329
```

<210> 79
 <211> 535
 <212> DNA
 <213> Homo sapiens
 <400> 79

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ggagctggaa ctggtcacca aggccggctt ccgggccctt ctctctgcc cctggtacct 60
gaacctgata tcctatggcc ctgactggaa ggatttctac gtagtggaa ccttggcatt 120
tgaaggtacc cctgagcaga aggcctctgt gatttgtgga gaggcttgta tgtggggaga 180
atatgtggac aacacaaacc tggccccag gctctggccc agagcagggg ctgttgccga 240
```

aaggctgtgg agcaacaagt tgacatctga cctgacattt gcctatgaac gtttgcaca 300
 cttccgctgt gagggtctga ggagaggtgt ccaggcccaa cccctcaatg taggcttctg 360
 tgagcaggag tttgaacaga cctgagcccc aggcaccgag gagggtgctg gctgtagggtg 420
 aatggtagtg gagccaggct tccactgcat cctggccagg ggacggagcc ccttgccttc 480
 gtgccccctg cctgcgtgcc cctgtgcttg gagagaaagg ggccggtgct ggcgc 535

<210> 80

<211> 537

<212> DNA

<213> Homo sapiens

<400> 80

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 ggaccgaggt ggagcccag tttgggacca aggtggagcc cgagtttgag acccagttgg 120
 agcctgagtg cgagaccag ctggaacccg agtttgagga agaggaggag gaggagaaag 180
 aggaggagat agccactggc caggcattcc ctttcaaac agtagagacc tacacagtga 240
 actttgggga cttctgagat cagcgtccta ccaagacccc agcccaactc aagctacagc 300
 agcagcactt cccaagcctg ctgaccacag tcacatcacc catcagcaca tggaaggccc 360
 ctggtatgga cactgaaagg aagggtggt cctgcccctt tgagggggtg caaacatgac 420
 tgggacctaa gagccagagg ctgtgtagag gctcctgctc cacctgccag tctcgtgaaga 480
 gatggggttg ctgcagtgtt ggagtagggg cagagggagg gagccaaggt cactcca 537

<210> 81

<211> 483

<212> DNA

<213> Homo sapiens

<400> 81

ctgaagcgca gaaagctcgg ccggtacaac gaggaggagc gggctcagca ggaggccgag 60
 gccgccagc gcctggccga ggagaaggcc caggccagct ccatccccgt gggcagccgc 120
 tgtgaggtgc gggcggcggg acaatccctt cgccggggca cgtcatgta ttaggtctc 180
 acagatttca agcctggcta ctggattggt gtccgctatg atgagccact ggggaaaaat 240
 gatggcagtg tgaatgggaa acgctacttc gaatgccagg ccaagtatgg cgctttgtc 300
 aagccagcag tcgtgacggt gggggacttc ccggaggagg actacgggtt ggacgagata 360
 tgacacctaa ggaattcccc tcttcagct ctagctcag ccaactgact cccctcctgt 420
 gtgtgcccat ggcccttttc tctgacccc attttaattt tattcatttt ttctttgcc 480
 att 483

<210> 82

<211> 505

<212> DNA

<213> Homo sapiens

<400> 82

caaggtgaaa cactgcagtc ccggtgtggt ggctcccat gcaggacggg ccaggctggg 60
 agtgccgctt tctgtgcca aattcagtgg ggactcagtg ccagggccct ggcacagagct 120
 ttggccttgg tctacctgcc aggcaggca aagcgctttt acacaggcct cggaaaacaa 180
 tggagtgage acaagatgcc ctgtgcagct gcccgagggt ctccgccac cccggccgga 240
 ctttgcctcc cccgaagtct tcacaggcac tgcacgggtt tgtctggcgc ccttttctc 300
 cagcctaaac tgacatcctc ctatggactg agccggccac tctctggccg aagtggcgca 360
 ggctgtgccc ccgagctgcc cccacccctt cacagggtcc ctacagattat aggtgccag 420
 gctgagtgta agaggccttg gggccctgcc ttccgggcgc tcttgacccc tggggcaaac 480
 ctgtgacctt ttctactgg aatag 505

<210> 83
 <211> 299
 <212> DNA
 <213> Homo sapiens
 <400> 83

tggccatccg ggacagtgag cgacagggca aggcccaggt ggagattgtc actgatgggg 60
 aggagcctgc tgagatgac caggctcctgg gccccaagcc tgctctgaag gagggcaacc 120
 ctgaggaaga cctcacagct gacaaggcaa atgccaggc cgcagctctg tataaggtct 180
 ctgatgccac tggacagatg aacctgacca aggtggctga ctccagcccc ttgcccttg 240
 aactgctgat atctgatgac tgctttgtgc tggacaacgg gctctgtggc aagatctat 299

<210> 84
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (136)..(136)
 <223> n is a, c, g, or t
 <400> 84

gaaaagtgca tgcttcattt gaacaattca ttcagcagca gatggacttt cagtgattta 60
 aaataaaatt ttgatccaaa gtcaggaca caaaccacag tggtaaaatt gagtagcata 120
 taatatcaga ctaaanttat ctgtaatttt ccacaacca gattgtatgt gttttatgtg 180
 tgtttaaata aatatgttag atacacgtgt atacatacac ccatatacaa cagatccaag 240
 actggctgac ttcatttgaa atggttgaat ctgctgtgta ataaagtgt tcaacctga 300
 ttaggaactg aaatttagta gaagagggaa aaggagttaa tgtaacaaat tattttagct 360
 acaaaccctg gtaatagagc acttggggga tgggatgggg tgggttggtg agacaatcag 420
 aatggtaaat tgattaaatg ctccaaacc tgtaattttg tgcatagagc accctatgct 480
 gtggaaataa ctgttcttag atttcattgt aactggactg ttcaggtgc cca 533

<210> 85
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (117)..(117)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (119)..(119)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (339)..(339)
 <223> n is a, c, g, or t
 <400> 85

gaaactgcgc attctctagt agtatatc gtgectgtct tcaaaaacat ttccctttt 60
 atactcattc cccccaggca tgggtagtg tcagtcggac tgcacaggga acacggntnc 120
 cagtggcttt ggcccctact cgggaaacgt ctgcctgttc tcgatgggta tggggtggct 180
 gccattccct tggtttctt aagcccttc taacgagagt ctcaaacaag cggaggcgag 240
 ggccaattca accccattct ttccagcgcc ccgcaccata gcacctgccc acctgagaac 300
 caggaacgca cctctctgt ggagctctga ctggtgtanc tggaaacaaa cagcaacttg 360
 caaacggacg aagagcctgc cgtgtgttaa tcattgcct tac 403

<210> 86

<211> 441

<212> DNA

<213> Homo sapiens

<400> 86

gtgtctgga aacctgctga ggaaattcaa aaacagcaac ggggtggcaga agctgtgggt 60
 ggtgttcaca aacttctgcc tgttcttcta caaatcacac caggacaatc atcccttgc 120
 cagcctgcct ctgctcggct actcgtcac catccctct gagtccgaga acatccagaa 180
 agactacgtg ttcaagctgc acttcaagtc ccacgtctac tacttcaggc cggaaagcga 240
 gtacacgttc gaaaggtgga tggagtgat ccgcagtgc accagctctg cctcgcgacc 300
 ccacgtgtg agccacaaag agtctctgt gtattgatgg ccggacacac tcgtttccgc 360
 agtggctgct ttcttgaag acgtttcct tcttctgtat taatgaagcc tggtaaaatt 420
 aacacctgc tgaaatcaa a 441

<210> 87

<211> 467

<212> DNA

<213> Homo sapiens

<400> 87

tatatgactt ggcagatcaa ctacatgctg cagttgggtc ttcccgctgt gctgttgatg 60
 ctggccttgt tccaatgac atgcaagtg gacagacggg aaaaatagta gcaccagaac 120
 ttatattgc tgttgaata tctggagcca tcaacattt agctgggatg aaagacagca 180
 agacaattgt ggcaattaat aaagaccag aagctccaat ttccaagtg gcagattatg 240
 gaatagtgc agatttatt aaggtagtc ctgaaatgac tgagatattg aagaaaaat 300
 gaatcaggat catgccttaa aaagaaaact ttgttaaag tattccactg aatcacaga 360
 tattttggg tattataca atcattggaa agcatggaga gctacattc ataattgag 420
 ggaaaattc taacagatgc cagaatgctt gttatggga ttgctgt 467

<210> 88

<211> 527

<212> DNA

<213> Homo sapiens

<400> 88

cagacaacag cctggtggca gcgggccacg actgcttccc ggtgctgttc acctatgacg 60
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 gtggcttgac ggcccgcgag cgcttcaga acctggacaa gaaggcgagc tccgagggtg 180
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<210> 89
 <211> 546
 <212> DNA
 <213> Homo sapiens
 <400> 89

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ccagaagaaa aataatctgg tcttggaact tttattttta tatggaaaag ttttaaggac 480
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546

<210> 90
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 <212> DNA
 <213> Homo sapiens
 <400> 90

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taacaggata cagaattaac aagagaaaaat gtctaacttt ttaagaaaaa ccttattttc 360
ttcgggtttt gaaaaacata atggaaataa aacaggatat tgacataata gcacaaaatg 420
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464

<210> 91
 <211> 409
 <212> DNA
 <213> Homo sapiens
 <400> 91

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ctgtcttctt ctccctctc ctctgctgca gcatgatttt cttaatttc agacactcac 240
tattttcatg aacagttacc ctctgtcccc acaaccaaag acaactcatg gcctccttg 300
gcccttgtgt aacattgcaa acctgtggct ttgcaaaatg taccaggtc acaaggggat 360
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409

<210> 92
 <211> 481
 <212> DNA
 <213> Homo sapiens
 <400> 92

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<210> 93
 <211> 393
 <212> DNA
 <213> Homo sapiens
 <400> 93

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<210> 94
 <211> 564
 <212> DNA
 <213> Homo sapiens
 <400> 94

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 tattaatgt ccgagctc actc 564

<210> 95
 <211> 474
 <212> DNA
 <213> Homo sapiens
 <400> 95

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 caggaaagtg tggaagagag agtggctgct ttcagaaatt tcagtatga aatcaggcac 180
 aacctctag aagtgtctt tgccacctg aacatctgt tcacacagt taagggtc 240
 aaggggacaa gtccatctc gtcattcagg cccagcgag tcatcgagga ccgcgactct 300
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 tctggggaca ccaatgcgag gctggtgcag atggaggtc tcatgaatta agtccatgc 420

tttgtgggag tctgggtcgg cacactgtca gtacatcagg cacatgggcc cact 474

<210> 96

<211> 448

<212> DNA

<213> Homo sapiens

<400> 96

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agcagcttta acccaagttt gtctgtcag tccagtccc agacggctga gtgaccccaa 360
gaaaggcttc cccgacaccc agacagaggc tgcagggtg gggctgggtg aggggtggcgg 420
gcctgcgggg acattctact gtgctaaa 448

<210> 97

<211> 271

<212> DNA

<213> Homo sapiens

<400> 97

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aaggaccaat cacctctgat attctgtgga aggttttggg gtcaaattct gccctctgca 180
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<210> 98

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (108)..(113)

<223> n is a, c, g, or t

<400> 98

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tttgatattg gcttgaatg tctcttttca tcatatgtaa tatcagtga acaggcagcg 180
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<210> 99

<211> 497

<212> DNA

<213> Homo sapiens

<400> 99

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attgtggtgt tctcttctca aggccttgaa atctccctt gactgagat tagtcgtcag 180
atctcctccc gtctcctcc caacttatac gacctgattt ccttaggacg gaaccgcagg 240
cactgcgcc gggcgcttta ctcccgtgc ttgttctgtc ccttcctcg gaccaaacag 300
tgctcatgct tcaggacctt gttgtcgaa gatgttggtt tcccttctc tgttatttat 360
ataaaaataa ttatcaaaa ggatatttta aaaaagctag tctgtctga aactgttta 420
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<210> 100

<211> 540

<212> DNA

<213> Homo sapiens

<400> 100

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ttgggggtccc cagtggggaa tgaacgggta ctctctatc gagcgcggaa agaacatgtg 180
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aagatcacca gccatgtgcc ttagtgtcct tttaacaga ctcaaaccac atggaccag 480
aatattcttt ctgtccagaa gggctacttt ccacatatag agtccaggg actgtctttt 540
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<210> 101

<211> 329

<212> DNA

<213> Homo sapiens

<400> 101

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aagaagtacg aatcttatt ttctgtcct gccctgagg tgggggggac cgggccctc 180
tctagggacc cctcgcacca gcctcattcc ccattctgtg tccatgtcc cgtgtctcct 240
cggtcgcccc gtgtttgcgc ttgacctgtg tgcactgttt gcatgcgcc gaggcagacg 300
tctgtcaggg gcttgattt cgtgtgccg 329
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<210> 102

<211> 540

<212> DNA

<213> Homo sapiens

<400> 102

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caccgatcc agctgcggtt aatccagctt gggcctgtct gactgcgat cctctgggc 180
tctctagga tcccccatg ccccgtaaga ggtggaagac gcttcctcc aggacagcag 240
gctttggagt ccgacacccc cagcctgcct ttgccaccag ccccaacct gcagagatat 300
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gaggcttgac agagtctgcc cctccccca ctgcaccca agagagagag cccagccag 360
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 ttagcaagat attctgggtt ctagataagg aagagtctct aatgagcccc cgagccccag 480
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<210> 103

<211> 513

<212> DNA

<213> Homo sapiens

<400> 103

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 ccatcctaata gtaaactgct gattttctg tcatttagca ccatgctgct tctgtctgtc 300
 ttaatgctgg cattaagatc atgagccctt tttctccagt agtacaggct ttgaaaacta 360
 ctctatttaa gttattgatg caatttgata tttttcata atctatattt aaacaaaatt 420
 acatcattgc atcatctttt cttaattcat ctccattaaa acttgcctta agctaccaga 480
 ttgcttttgc caccattggc catactgtgt gtt 513

<210> 104

<211> 529

<212> DNA

<213> Homo sapiens

<400> 104

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 ttttaagta ccttgaggga ggagagggtg gtgacatgca tgggtgggat ctatggcctc 480
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<210> 105

<211> 524

<212> DNA

<213> Homo sapiens

<400> 105

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 cacaatgat gaaaaagaat agaactttct catcattctt tgaataacgt ctccctgttt 180
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<210> 106
 <211> 532
 <212> DNA
 <213> Homo sapiens
 <400> 106

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 aaggctttga gtaactcac tgagggtatc tgacaatgct gaggttatga acaaagttag 360
 gagaatgaaa tgtatgtgct cttagcaaaa acatgtatgt gcatttcaat cccacgtact 420
 tataaagaag gttgggtgaat ttcaacaagct attttggaa tatttttaga atattttaag 480
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<210> 107
 <211> 402
 <212> DNA
 <213> Homo sapiens
 <400> 107

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 agatacatgc actgaactct ttccactgag aatcaagatg tggtaataa aaaggatcaa 360
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<210> 108
 <211> 504
 <212> DNA
 <213> Homo sapiens
 <400> 108

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<210> 109
 <211> 512
 <212> DNA
 <213> Homo sapiens
 <400> 109

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 tgggactgac agcctgcagg gtttccttgg gcgcggcccc aaaattgcct taaaacaaa 480
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<210> 110

<211> 212

<212> DNA

<213> Homo sapiens

<400> 110

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 gagtctgcac tcaacgagga ggcggggccgc ctgctcttgg agaactacga ggagtatgcg 180
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<210> 111

<211> 337

<212> DNA

<213> Homo sapiens

<400> 111

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 gtcaggcaag ccagcagaga gctctgctgt agctgccact gagaagaagg cgtgactcc 300
 agctcctccc ataaagaggt gggagctgtc ctggac 337

<210> 112

<211> 330

<212> DNA

<213> Homo sapiens

<400> 112

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 ctcaccactc tgtcaacggc tgcaacctgc ggccggggga cctcctggct tctgggacca 180
 tcagcgggcc ggagccagaa aacttcggct ccatgttga actgtcgtgg aagggaacga 240
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<210> 113

<211> 454

<212> DNA

<213> Homo sapiens

<400> 113

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 gcaccacagt gaccctggcc tcagcgtggc aaatgcatgt aaatatttt cgtaggcagc 180

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 tgcgggtact ctctgttcc agcctgtga agga 454

<210> 114
 <211> 459
 <212> DNA
 <213> Homo sapiens
 <400> 114

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 aatgcgccc cagtgaagtt cctcacgccc tgctatcacc ccaacgtgga caccagggt 180
 aacatatgcc tggacatcct gaaggaaaag tggctgccc tgatgatgt caggaccatt 240
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 gctgccgagc tctggaaaaa ccccacagct ttaagaagt acctgcaaga aacctactca 360
 aagcaggta cagccagga gccctgacc aggctgccc gcctgtcctt gtgtcgtctt 420
 ttaattttt cctagatgg tctgtcctt ttgtgattt 459

<210> 115
 <211> 371
 <212> DNA
 <213> Homo sapiens
 <400> 115

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 ctagaccctc aaactgggtg ggttctgtgt caataaaaag cttcaccccc tggctgagt 180
 aggtgggtccc ctgcaatcac tgtttgtccc ctaccacccc aacctgtccc tgctgtctcc 240
 cagcccactc atccttatgt gctagggata aatcaagagt cctcagcact ccacattccc 300
 aaaaaatccc aggaactcct aaacctccc ctgtgacaga agatgagggt ggcagctgat 360
 cagacctcaa t 371

<210> 116
 <211> 319
 <212> DNA
 <213> Homo sapiens
 <400> 116

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 agaaggggag catctcgggg attaccatgg tgctggcatg ctacgtgctc tttagctact 180
 ccttttcta caagcatctc aagcacgagc ggctccgcaa ataccactga agaggacaca 240
 ctctgcaccc cccacccca cgacctggc ccgagcccct ccgtgaggaa cacaatctca 300
 atcgttgctg aatccttc 319

<210> 117
 <211> 352
 <212> DNA
 <213> Homo sapiens
 <400> 117

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 accttttctt tgaccatctg gagtctgggg caacttaagg aggcaccaca cagtgggtgca 180
 ggcacatttc caagcgtagg tgccttggc ttttggcc aaagctagt ttatggtaa . 240
 caacaggcca gggctgtgg ggcactgacc ttgaaagtgg caaatggag gttcacagg 300
 ctgtgcggga gcaggacggc ttgcttcac taacaatctc agtttcttt aa 352

<210> 118

<211> 487

<212> DNA

<213> Homo sapiens

<400> 118

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 gtaaatattg aactgtttat ttttcttta gtcttctat ttaattaact tcattgccgc 180
 tggattctgt tcagccttta aaaatatttc ttagtggtca ttgctctgca gaactcaaaa 240
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 ctggcacgt aaacagacta ctgacttat ttaggttcg ttgagcttt gtgtgtaa 360
 attaaaaatg ctctataaa gtttcaagg tagggagtga tttattatt gtgtatatct 420
 aatatattaa gtatgtgtga tactaaggtt tgactgctat aattattgt actgttgatc 480
 acatgta 487

<210> 119

<211> 476

<212> DNA

<213> Homo sapiens

<400> 119

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 cccgggtggt agtgctgcca gcatctgtgc caaggtggcc cgggaccagg ccgtgaagaa 180
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 gttgtccgg ttcagctggc gcacggccca gaccatctg gagaaagagg cggaagatgt 360
 tatatgggag gactcagcat ccgagaatca ggagggactc aggaagatca catctactt 420
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<210> 120

<211> 419

<212> DNA

<213> Homo sapiens

<400> 120

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 gcccacccc acctactct gtgtggctgc tttcttggg gccctcccc caccacctg 180
 tagctgtgac gtgtgtagt ttttagatgt ttgtaaatg tttaaaaaa tgttaaaagg 240
 aaaaaagtga aaataacaaa aaagaaaatc aaaattcacc ttgctcatgc tgcgtccagt 300
 gcccacccc tgtgtgctac ctccccattt tgtaacactg taccaggtgg tgactgttta 360
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<210> 121

<211> 438

<212> DNA

<213> Homo sapiens

<400> 121

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tgagcggggg ccgcgagcg caacgcactg gtgaccagac tgccccacg ccgggaacca 120
agcaggagac gacaggcgag agaggagcca gacagacct gaaaagaagg acgggttggg 180
gccgggcaca ttgggggtca ccggccgatg gagacaccaa ccgacaggcc ctggctgagg 240
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cggcacaggt cgggcgcagg attcagccgg aggggaaggga cggggaagcc gagctccaga 360
gcaacgacca gggccgagga ggtgcctgga gtgcccacc tgggagacag accccacctc 420
cttgggtagt gagcagtg                                     438

```

<210> 122

<211> 471

<212> DNA

<213> Homo sapiens

<400> 122

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accctgtcat gtggcagacc ttccatccga accacggctt gggaagacta catttggttc 120
caggcaccag tgacatttaa aggttccgc gagtgaatga gtgcttcta atcctaaaaa 180
cacaatggt gaattatct tctcatgtg gcgctgaatc accatctgg ttggagcta 240
gagttgctc ctggtgagag aggaagcaac tctcctctg gttgtctgcc tccctcaga 300
tttctgata ggctgatggc atgtggctgt gactgtgact gtaatcatt ctgaacaaca 360
tctcttgaa tcaaggttg atttccag aggggtctgg gtcaggcatt tctattagga 420
gttggaaagc aaaaatgggt ccatagacac tctatggagg tgtcccttc t 471

```

<210> 123

<211> 475

<212> DNA

<213> Homo sapiens

<400> 123

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cagcctatgg ccaccaattg gatccaggag aaagtgtggc tctctcagga ggtggacaaa 180
ctgagagtga tgttctgga gatgaaaaat gagaaggaaa actctgac aagtccaga 240
gcccatagaa atatctaga ggagaacctt cggcgtctg acaaggagt agaaaaacta 300
gatgacattg ttcagcatat ttataagacc ctgctctcta ttccagaggt ggtgagggga 360
tgcaaagaac tacagggtt gctggaattt ctgagctaag aaactgaaag ccagaatttg 420
ttcacctct tttacctgc aatacccct tacccaata ccaagaccaa ctggc 475

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<210> 124

<211> 482

<212> DNA

<213> Homo sapiens

<400> 124

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aggaaagaag gaatatctca ttgcaggaaa ggccgagggg gacggcaaga tgcacatcac 120
cctctgtgac ttcacgtgc cctgggacac cctgagcacc acccagaaga agagcctgaa 180
ccacaggtac cagatgggct gcgagtgcaa gatcacgagc tgcccatga tccctgcta 240

```

catctctcc ceggacgagt gcctctggat ggactgggtc acagagaaga acatcaacgg 300
gcaccaggcc aagttcttcg cctgcatcaa gagaagtgc ggctcctgtg cgtggtaccg 360
cggcgcgggc cccccaaagc aggagtttct cgacatcgag gaccataag caggcctcca 420
acgcccctgt ggccaactgc aaaaaagcc tccaagggtt tcgactgggtc cagctctgac 480
at 482

<210> 125
<211> 530
<212> DNA
<213> Homo sapiens
<400> 125

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tgatactggg tctgcgatgc agcggcgtga ggctgggct gggtggagaa ggtcacaacc 120
cttctctgtt ggtctgcctt ctgctgaaag actcgagaac caaccaggga agctgtcctg 180
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ttttactgc ctttcaaag cacttaagtg ttgatctaa cgtgtccag tgtctgtctg 360
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ttccaggaa taatgtttg ggaaactg aaatgaaatc ttccagtat tataaattgt 480
gtattaaaa aaaagaaact ttctgaatg cctacctggc ggtgtatacc 530

<210> 126
<211> 504
<212> DNA
<213> Homo sapiens
<400> 126

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tccgaaaac ggaccttaac aagaagctgg tgcaggagct gttgctgtg tctgcagagc 180
tgagcaggtt caccacagtg gtggggaaca ccatgtgcac ctggacttc tatgaagggc 240
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tgtgcagcgc ctgcggcctc caagcggccg tgggtgtgt caccctctg aaccgcctgg 420
aaggggacca gtcagcagc cctcgcaatg tgctcagcga gtaccagcag aggccgcagc 480
ggctggtgag ctacttcac aaga 504

<210> 127
<211> 477
<212> DNA
<213> Homo sapiens
<400> 127

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tgggccaggg ttgectcaga ggccaagttt ccagaagcct ctacctgcc gtaaatgt 180
caaccctgtg tctgggctt gggcctgctg tgactgacct acagtggact ttctctctg 240
aatggaacct tcttaggcct cctggtgcaa cttatttt tttttaatg ctatctcaa 300
aacgttagag aaagtcttc aaaagtgcag ccagagctg ctgggcccac tggccgtcct 360
gcatttctgg ttccagacc ccaatgcctc ccattcgat ggatctctgc gttttatac 420
tgagtgtgcc taggtgccc cttattttt atttccctg ttgcgtgct atagatg 477

<210> 128
 <211> 460
 <212> DNA
 <213> Homo sapiens
 <400> 128

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ggtggagcag ctcatgtaca tcaaggagga cttgatcadc cctcaccatc acagcttcta 120
cgacttcadc gtcaccaagg cacgggggaa gaggggacca ctctcaact ttgatgttca 180
tgacgatgtg cggttgtcca gtgacgccac tggggagaag gatgagtcac atgcaggcaa 240
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accctacgac cctgaaaaga agtgggacaa gtacacgac cgctgagcat ccaggaggct 360
gcgcggcccc ggctctcag ctcctcagt gtccccgtg gtgtaccgg gactccaggc 420
acccgctccc ctgcgacat gccaggcacg ctgggaggag 460
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<210> 129
 <211> 526
 <212> DNA
 <213> Homo sapiens
 <400> 129

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gaactgttc agaccgttt agcacggaaa cctaaaatgt gcagcttcct tgagtggcga 60
gatctgaaga ttgtttaca aagatatgct agtctgtatt ttgctgtgc tattgaggat 120
caggacaatg aactaattac cctggaaata atcctcgtt atgtggaatt acttgacaag 180
tatttcggca gtgtctgtga actagatadc atctttaatt ttgagaaggc ttattttatt 240
ttggatgagt ttctttggg aggggaagtt caggaaacat ccaagaaaaa tgccttaaa 300
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gaaattggac tgacataact ctctccctt gtgatgact tctgtggca ttacacac 420
ttagatggt cactccctc atgtccatgt tagctcatgg tgtaagatga tgtctgtca 480
gtattactgt ttgctaagc cgttcattc atgcctacac aatttt 526
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<210> 130
 <211> 463
 <212> DNA
 <213> Homo sapiens
 <400> 130

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gggaaccggt gactcagaaa gacagatgtt ttgtaattt accccaaatg tgccatccac 60
atagtcttt ttctcttcg ccttcggctt gttgaatct cacaattatg tatttaattc 120
tcaaagaaat atgtatctgt agccgtttgt tgacactaat acagatgatt aaggaaaaca 180
gtgatcttt gggaaggga gctaccaaca cttatacac acacacacgt gcacacacac 240
acacacacta tatatatata ttatttacag ggaaatttt cagggtttac aaaagagtat 300
gtgattgga gtaagagaca cacagaatgt ttatgaagaa attgcatttt cttttcctt 360
tacattgaa cttctttata gtttaatat aacgtcttga gatggcacat tctacgatt 420
gaagaagggg tcttgagatc ccctaaact gcatacccag ttt 463
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<210> 131
 <211> 255
 <212> DNA
 <213> Homo sapiens
 <400> 131

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gcaaaagggc ttgcctaagg ccagccattt ttcagtagca ggacctgcca agaagattcc 120
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ttctaactga aggtgcagtt gaattcagtg gggtcagaac caagatgccac acatcggtgt 180
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 ttcacattaa ctcag 255

<210> 132
 <211> 560
 <212> DNA
 <213> Homo sapiens
 <400> 132

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 atgacctga agtcagcact tgctttagct atcaaagtac taaataagac catggatgtt 180
 agtaaactct ctgctgaaaa agtggaaatt gcaacactaa caagagagaa tggaaagaca 240
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 cactaggaag gctttacttt tttaactgg tgcagtggga aaataggaca ttacatactg 480
 aattgggtcc ttgtcatttc tgtccaattg aatactttat tgtaacgatg atggttacc 540
 ttcattggagc tttaattctt 560

<210> 133
 <211> 470
 <212> DNA
 <213> Homo sapiens
 <400> 133

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 ggcaggggccg gggctcagac ccagcaattg aggtgtgatg gcggccccac cccaactacc 180
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<210> 134
 <211> 541
 <212> DNA
 <213> Homo sapiens
 <400> 134

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 gccacctaca tccagcccca aaactggggc ttcaggccag agcatccatg gccaatcca 180
 aattgtgaac ccagagacac tccatccac cttctccat gctcatccc aaactggggc 240
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g 541

<210> 135
 <211> 501
 <212> DNA
 <213> Homo sapiens
 <400> 135

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 ttcactttaa tatttaataa gattttctgg gataacagta agggatatta gataatatac 240
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<210> 136
 <211> 533
 <212> DNA
 <213> Homo sapiens
 <400> 136

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 aacctaatat gtatatgtt gaaatacttc ataattgtca tgtttagca aacatttctg 480
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<210> 137
 <211> 351
 <212> DNA
 <213> Homo sapiens
 <400> 137

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<210> 138
 <211> 542
 <212> DNA
 <213> Homo sapiens
 <400> 138

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tg 542

<210> 139

<211> 549

<212> DNA

<213> Homo sapiens

<400> 139

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gacataaccg acgtgcagcc tgggaactac atctcaagg tgcacgtgaa cccaaagtat 180
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agattgccc 549

<210> 140

<211> 558

<212> DNA

<213> Homo sapiens

<400> 140

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atctcctgca agaggacct ctggctctcc aaggaccag ggtcggggag ggccagccag 180
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ggtaacaaac tctcaacag aaaatgaagc ctgaacctcc ttaaaaagt catatgtcga 480
atgaccaa atactatgtat attgatctgc taagaccagg atttttctga tatggacat 540
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<210> 141

<211> 518

<212> DNA

<213> Homo sapiens

<400> 141

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cccagccctc ctacgcccga gccctgctg cctgcccct ccagggggcc atgagtgcct 180
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cacaaatctc tacaagtgcc tgctatccct ctcccactcc ccaccccagc accggtccaa 360
 ccccttcate cccagctgct cctaggactg gcccatgggc aggcgggtgg ggggatggga 420
 aggggggtgcc ctgaaaccaa actggaagcc cctctgcct cccagctggg gcctctgggg 480
 tgggggtggg ggctgtggc aagccttatt ctgtattg 518

<210> 142

<211> 433

<212> DNA

<213> Homo sapiens

<400> 142

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 taaaggata aacacacttg ttacctatga tatggtcca gagcccaaaa tcattgatgc 120
 tgctttgcgg gcatgcagac ggtaaatga tttgctagt ctagtgcga tcctagaggt 180
 tgtaaggac aaagcaggac ctcataagga aatctacccc tatgtcatcc aggaacttag 240
 accaacttta aatgaactgg gaatctcac tccggaggaa ctgggccttg acaaagtga 300
 aaccgcatgg atgggctcc ccaaggattt attgacattg ctacttgagt gtgaacagtt 360
 acctggaat actgatgata acatattacc ttatttgaa caagtttccc ttatttgagt 420
 accaagccat gta 433

<210> 143

<211> 512

<212> DNA

<213> Homo sapiens

<400> 143

ccacgagttc acctatgcac tgatccgca caagggtctt ttccaggatg ctggcggtat 60
 ccaagctgcc tacagcctaa acttccccct gtgggtctg ccagccccca gccagcgcc 120
 cgcacctcc tggagtgcgt ttccgtgtc ttaccgcg gtcgtattgg agaccgtcaa 180
 gcagcgagg agcagcccc agcgccgctc gctggctctg aggtgtatg aggccacgg 240
 cagccacgtg gactgctggc tgcactgtc gctgccggt caggaggcca tctctgcga 300
 tctctggag cgaccagacc ctgctggcca ctgacttcg ggacaaccgc ctgaagctca 360
 cttttctcc ctccaagtg ctgtccctgt tgcctgtgt tcagctccg ccactagag 420
 tccctggggc tggggtttt ttgtagaag gctctggga ctctaattt ctgcttccc 480
 agcctaaagc agggatcagt cttttctgt gg 512

<210> 144

<211> 500

<212> DNA

<213> Homo sapiens

<400> 144

aacactgcca gaatacttic tagctgcttt gtaattttt aagagtgtta tttgtttt 60
 gttttctgt tctttgtgt ggctctgtt ttcatcttg ttgtacgtgt agatctgtaa 120
 ataaaattgc agtatttaaa gcttaagctt tcaggaaaaa gaaaataaga attcagtgtg 180
 tgcattgaca ctctgtgtga tgagaaggag ggatatgaag gaagatggct tgcagagtaa 240
 gtccgggtggc aattgtcagg gtgtgggaat ttctttcct acggggtacg tgattttgta 300
 aaaaggaagt atttctccca aaattgggag taggcaaaact actaatcagt ttgctttgt 360
 gttgtatgct agtttaaaaa agaaaatatg taatataatg taaaaaaa caaaaaaag 420
 cttttatgat ggattttgta aatagattg ttacagggtg acctgttctc tagctgtgat 480
 ctaccactt caaatgggtg 500

<210> 145

<211> 512

<212> DNA

<213> Homo sapiens

<400> 145

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tgaatgacct gacttttagc caccaggtac tctttaaca gtttctta tcagaggccc   60
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gagaattctt agcatacatt cagacgtttt ttctgcacaa taataagtcc atctgtcact   180
tgcattccac ttttgttac atagaaagag tctgaccctt taatccaaaa ggtctttta   240
cattgtgaat gctgtgggaa ggcaattct ctgcacacaa gaggtacgt tttggaagt   300
atgtatgta tttgatgact gaaaatgaac tgtaaagct cctagagtat attcctctgc   360
tgaacaaat taaactcaa aaaaatctaa cagtaacaca ccctgcttg ggaccctagc   420
tatatgcatt ttatgtgacc ttgcatgct tcagtgaaca tactaattct atgtctagca   480
catgttgatt tctatgtat tctgggtatt ct                               512
```

<210> 146

<211> 562

<212> DNA

<213> Homo sapiens

<400> 146

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aggacaaact ctgtgtacct gtgcccaggt gaatgggagc aggtgctct tgcctgtcc   60
tgcggggggc cccacagatt cctggcattc agcactgctt agcattctcg gaaggtttct   120
tcaactgctt gcttttcca ggcttgctt tagtgtcatg taagacattt ttaagttata   180
tttattttgt tgggttttaa aattgcacag aacactaaga ccgaaaggct ggactctgt   240
ttctccttga aagctttgcc tttgtttga acttccttc ccacttgga gaaagagccc   300
agaagcagcc ctggccctgt aagatggact ctttcactct tcagttgtat ttactttga   360
gtttctctgc atctgtccac cccatgtgta tataaccag ccctggctc tggggtggtc   420
acctgtcag tgccttttgt tctggaggag aggaccccc cgctgccga gaggtctct   480
tctgttctg caccctctc cccatgggac ctggagaaa actgaactgt taaaacccc   540
tgcacagtgc ctgtcaaaca ga                               562
```

<210> 147

<211> 465

<212> DNA

<213> Homo sapiens

<400> 147

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atctcattc ttactgct tttcgtggc actttggaca agtctggtg gactctcct   60
gggaaagagt ccctgaatct ctggtacgac tgcacgtgga acaacgacac caaacatgg   120
gcctgcagta atgtcagcga gaatggctgg ctgaaggcgg tgcaggctct catggtgctc   180
tcctcattc tctgtgtct ctcttcac ctgttcattg tccagctcta cccatgcga   240
cgaggaggtc tttctatgc caccggcctc tgccagcttt gcaccagcgt ggcggtgttt   300
actggcgctt tgatctatgc cattcacgcc gaggagatcc tggagaagca cccgcgaggg   360
ggcagcttcg gatactgctt cgccctggcc tgggtggcct tccccctgc cctggtcagc   420
ggcatcatct acatccacct acggaagcgg gagtgagcgc cccgc                               465
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<210> 148

<211> 493

<212> DNA

<213> Homo sapiens

<400> 148

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ggagttgtag cctctttaa cacctgagaa gccatgagag gacagatccc ataaatacct   60
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taagtgtaga ggggtctctg ttgtagaata gctcttaatt ttagagaaac ctctctggag 120
 ggaaccata ctctataat gagcaaagta acaacttcaa gcattttcc agcgttacca 180
 tcaaactcac aaataggttg aaatccttta gttataactc agccttagg aacaccggag 240
 aaccacaat aatagaaatc tttctgtgt cccattgag aaatgcttta gtagcatct 300
 tcatgcttg aaatctagac aagaagagaa tccatggatg gacatggtcg aggaattcgg 360
 aaagcctgca gttgacattc agtcttact tgaactcaa aactgacact aggaacagct 420
 tcatgagtc agtagaagta agctttattt gtagcttctg cctgtttga cggcgtatct 480
 attcagggaa gcg 493

<210> 149
 <211> 480
 <212> DNA
 <213> Homo sapiens
 <400> 149

caggcaggag gtcctgttag ccctgccttc caggaagggt ggggtgggag tttgagtgg 60
 gaaagaggat gacatgtgtg agagagtctt gacctgttt gctagggaga gtgagtgagt 120
 gctctgggc actgctcagg ccgtttctgc tgactgcct ggcttacaat aaatgcccaa 180
 taaatatttg ttgaccatat gtgtgtaca ctgtgtgcc ctgtccagtc cctctacca 240
 agctgagacc cccatcccca gctgctctga gtttgggctg caagtgcica cagctcttgt 300
 tctccagaaa ctggagaatt gccctcagga gatgagagcc atctcacctc acccaggagt 360
 cacttctct ctacaccca acacctggtt catttgatta aagcggagaa aactccaggg 420
 tgctatgact gctctggcac ccttgatca ggccaagcta gacttttct gaccttcat 480

<210> 150
 <211> 483
 <212> DNA
 <213> Homo sapiens
 <400> 150

attcagcctg gcttcaaatt gtaagcatgc acaaattctg tctctggatt atattatgaa 60
 gcttttatgt gaaacatgtt tctttgtaat gaaaaccaca ttggagatgt ttagtaatca 120
 tattgttact ggtaccaaga ctactaggga aatgccttg tactttaggg aagtactttt 180
 ggcattttac tgtacagaca gaaaaactg agatgtagcc cctctcctgg aagtgcta 240
 tttgaaaaac tgctcatatg atgtacatgt actgattact gcctatttta ataaacactc 300
 ttgaaaaatg catgttgccc tgttgctgcc tgcctatc tctcatctc cccatcattg 360
 gtaccactt gcttttaaaa tccactttat ctgtaataat gtaagacaaa tatgttctga 420
 cataagtatt taattcatgt tgcttgcac aatggtcaga ggccgatgaa ttgtgaagg 480
 tgg 483

<210> 151
 <211> 145
 <212> DNA
 <213> Homo sapiens
 <400> 151

ttctgaaca tgagtttgcg acgggaccag tgtgtcttga tgatgagaat gagtttctc 60
 ctataatctt gtgccgtgga aatcagaagg gcaaaacgaa gcagtcatga tgagaagcac 120
 acctcagaaa tcaggacatc ccccc 145

<210> 152
 <211> 539
 <212> DNA

<213> Homo sapiens

<400> 152

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tgccagcgac tgtctcagac tgggcaggga ggctttggca tgacttaaga ggaagggcag   60
tcttgggacc cgctatgcag gtctctggcaa acctggctgc cctgtctcat cctgtccct   120
cagggtagca ccatggcagg actgggggaa ctggagtgtc ctgtctgtat cctgtttgtg   180
aggttccttc caggggctgg cactgaagca aggggtgctgg ggcccatgg ccttcagccc   240
tggtgagca actgggctgt agggcagggc cacttctga ggtaggtct tggtaggtgc   300
ctgcatctgt ctgccttctg gctgacaatc ctggaaatct gttctccaga atccaggcca   360
aaaagttcac agtcaaagtg ggagggggtat tcttcatgca ggagaccca ggccctggag   420
gtgcaacat acctcaatcc tgtcccaggc cggatcctcc tgaagccctt ttcgcagcac   480
tgctatcctc caaagccatt gtaaatgtgt gtacagtgtg tataaacctt cttcttctt   539
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<210> 153

<211> 390

<212> DNA

<213> Homo sapiens

<400> 153

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gaaggtgtgg ttttcatttc tcagtcacca acagatgaat aattatgctt aataataaag   60
tatttattaa gactttcttc agagtatgaa agtacaaaaa gtctagttag agtggattta   120
gaatatattt atgttgatgt caaacagctg agcaccgtag catgcagatg tcaaggcagt   180
taggaagtaa atggtgtctt gtagatatgt gcaaggtagc atgatgagca acttgagttt   240
gttgccactg agaagcaggc ggggtgggtg ggaggaggaa gaaaggggaag aattaggttt   300
gaattgcttt ttaaaaaaaa aagaaaagaa aaagacagca tctcactatg ttgccaaggc   360
tcactctgag aagcaggcgg gttgggtggg                               390
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<210> 154

<211> 398

<212> DNA

<213> Homo sapiens

<400> 154

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ggctcccagc aagggtagga cgggccgcat gcgggcagaa agttgggact gacgagctgg   60
gagcaggcga ccgagctcct tccccatcat ttctccttgg ccaacgacga ggccagccag   120
aatggcaata aggactccga atacataata aaagcaaaca gaacactcca acttagagca   180
ataacggctg ccgcagcagc cagggaagac ctgtgttggg ttatgtgtc agtttcactt   240
ttccgataga aatttcttac ctcatTTTT taagcagtaa ggctgaagt gatgaaaccc   300
acagatccta gcaaatgtgc ccaaccagct ttactaaagg gggaggaagg gagggcaaag   360
ggatgagaag acaagtttcc cagaagtgcc tggttctg                               398
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<210> 155

<211> 562

<212> DNA

<213> Homo sapiens

<400> 155

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gaagaacctg cgaaacctgt ttgtccag cccaccccca gtggatggga tgcataatgc   60
cagcaagttt tgtttaacag caaaaaagga agattaatgc aggtgttata gaagccagaa   120
gagaaactgt gtcaccctaa agaagcatat aatcatagca ttaaaaatgc acacattact   180
ccagggtgaa ggtggcaatt gcttctgat atcagctcgt ttgatttagt gcaaaaatgt   240
tttcaagact atttaatgga tgtaaaaaag cctatttcta cattatacca actgagaaaa   300
aatgtgtcgg taaagtgttc ttcataata aataatcaag acatgggtccc atttgcagga   360
aaagtgcaga ctctgagtgt tccagggaaa cacatgctgg acatcccttg taacccggtg   420
```


tgggcgcccc tgcattgctg ggatgtttct gcccacgggt ttgtttgtgc aataacgtta 480
 tcacatttct aatgaggatt cacattaata taatataaaa taaataggtc agttactggt 540
 ctctttctgc cgaatgttat gt 562

<210> 156

<211> 268

<212> DNA

<213> Homo sapiens

<400> 156

tgcctgacc cccatcagtt aaggagctgt gcaataacct tccatgtacc tgagtgagt 60
 tgaacttat tgggttggcg aagcctggta aagctgttg aatgagtatg tgattcttt 120
 taagtatgaa aataagata tatgtacaga ctgtatttt ttctctggcg gcattccttt 180
 aggaatgctg tgtgtctgct cggcaccccg gtaggcctga ttgggtttct agtctcctt 240
 aaccatttat ctcccatatg agagtgtg 268

<210> 157

<211> 490

<212> DNA

<213> Homo sapiens

<400> 157

ccttgacca attgtcatca accatgtcat cagcgtggac ccttcagacc agaagaagac 60
 agcgtgctat gacattgacg tggaggtgga ggagccatta aaggggcaga tgagcagctt 120
 cctctatcc acggccaacc agcaggagat cagtcctctg gacagtaaga tccatgagac 180
 gattgagtc ataaaccagc tcaagatcca gagggacttc atgctaagct tctccagaga 240
 ccccaaagge tatgtccaag acctgctccg ctcccagagc cgggacctca aggtgatgac 300
 agatgtagcc ggcaacctcg aagaggagcg cggggctgag ttctaccacc agccctggtc 360
 ccaggaggcc gtcagtcgct acctctactg caagatccag cagcgcaggc aggagctgga 420
 gcagtcgctg gttgtgcgca acacctagga gcccacaaac aagcagcacg acggaacttt 480
 cagccgtgac 490

<210> 158

<211> 496

<212> DNA

<213> Homo sapiens

<400> 158

cgctctcgtt tcattttctg cagcgcgcca cgaggatggc ccacaagcag atctactact 60
 cggacaagta ctccgacgaa cactacgagt accggcatgt tatgttacc agagaacttt 120
 ccaacaagt acctaaaact catctgatgt ctgaagagga gtggaggaga ctgtgtgtcc 180
 aacagagtct aggtctgggt cattacatga ttcagagcc agaaccacat attctctct 240
 ttagacgacc tcttccaaaa gatcaacaaa aatgaagttt atctggggat cgtcaaatct 300
 tttcaaatt taatgtatat gtgtatataa ggtagtattc agtgaatact tgagaaatgt 360
 acaaactctt catcatacc tgtgcatgag ctgtattctt cacagcaaca gagctcagtt 420
 aaatgcaact gcaagtaggt tactgtaaga tgtttaagat aaaagttctt ccagtcagtt 480
 ttctcttaa gtgcct 496

<210> 159

<211> 508

<212> DNA

<213> Homo sapiens

<400> 159

atccattgtc ctgtagttt ctccctect gttctctggt tatagctggt cccaggtcag 60
 cgtgggaggc accittgggt tccagtgcc cagcactttg tagtctcacc ccagattact 120
 aacccttct gatcctggag aggcagggat agtaataaaa ttgctctcc taccccatcc 180
 cccatccct gacaaaaagt gacggcagcc gtactgagtc tgtaaggccc aaagtgggta 240
 cagacagcct gggctggtaa aagtaggtcc ttatttaca ggctgcgta aagttgtact 300
 aggcaaacac actgatgtag gaagcacgag gaaaggaaga cgtttgata tagtgttact 360
 gtgagcctgt cagtagtggg taccaatctt ttgtgacata ttgtcatgct gaggtgtgac 420
 acctgctgca ctcatctgat gtaaacat cccagagctg gcgagaggat ggagctgggt 480
 ggaaactgct ttgcactatc gtttgctt 508

<210> 160
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (251)..(251)
 <223> n is a, c, g, or t
 <400> 160
 gaagatgagt ctatggcacc aggttcttaa acccaggaaa gcacctacag accggctcct 60
 ccatgcactt taccagtcca acgcatccac tctctgttct ctggcaggg cgggggaggg 120
 gggataggag gtcccttcc ccttaggtgg tctcataatt ccatttggg agagaacagg 180
 agggccagat agataggtcc tagcagaagg cattgaggtg agggatcatt ttgggtcaga 240
 catcaatgtc nctgtcccc ctgggtccag ccaagctgtg cccatcccc caagcctcct 300
 gggaggatcc agccaaatct tgcgactcct ggcacacacc tgtctgtaac ctgtttgtg 360
 ctctgaaagc 370

<210> 161
 <211> 544
 <212> DNA
 <213> Homo sapiens
 <400> 161
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 ttgaggaat aaaaacctgc agaaagcacc gataaccttc aagatctgaa tgagattcta 120
 ttataaccg tctaaacgat tgcaaaatc ctctttggt ttggaagca gcgtttgctc 180
 tcccgtggt cggattctct gaggaccagg gagttgacac acaaaccg ccatgggtcc 240
 gagccagcta ttctcaagg ctcccacctc gccaagctcc caaggcctg ctggcagtgc 300
 ctacgtgtg ccaactacce tgtctgttac agaccacggc tgggtaagca ccctaaaag 360
 caacagaaat gacgtctgga agctgaaatg tgaaactgtc aagatggctt aggagaggaa 420
 ggagtggacc cgctggctct tggcattttg tatttagaat tattctaact ttatacataa 480
 tgtataggcc gatcttttgg aagggataag gtttcatc ttgtgcaact cattattctc 540
 atta 544

<210> 162
 <211> 412
 <212> DNA
 <213> Homo sapiens
 <400> 162
 atggagatgg tactggagtc gccagtattt accgggggcc atttgcagat gaaaatttta 60

aacttagaca ctcagctcca ggctgcttt ccatggcgaa cagtgggtcca agtacaatg 120
 gctgtcagtt ctttatcacc tgctctaagt gcgattggct ggatgggaag catgtggtgt 180
 ttggaaaaat catcgatgga cttctagtga tgagaaagat tgagaatgtt cccacaggcc 240
 ccaacaataa gcccaagcta cctgtgggtga tctcgcagtg tggggagatg tagtccagac 300
 aaagactgaa tcaggccttc ccttcttctt ggtgggttgc ttgagtaaga taatctggac 360
 tggccccctt ctttcttcc ctgectgtg ctgccccatt tgatcaagag ac 412

<210> 163

<211> 569

<212> DNA

<213> Homo sapiens

<400> 163

tgaggaaccc aatgaatgtg acttcaagaa tatggatagt ttaccttctg gtaaaataca 60
 tcgaaaagtg aaaataatat taggacgaaa tagaaaaaa aatctggaac caaatgctga 120
 atttgataaa agaactgaat ttattacaca agaagaaaa agaatttga gttaccgggt 180
 acagtcttta ctgacttgt ttcagactag tgaagagaaa tcagaatttt tgggtttcac 240
 aagctacaca gaaaagagtg gtatatgcaa tgttttagat atttgggaag aggaaaattc 300
 agataatctg ttaacagcgt tttctcgtc ccttcaact tctacattta ctggctttta 360
 gaatttaaaa aatgcatact ttcagaagt gataaggatc atattcttga aattttata 420
 aatatgtatg gaaattctta ggatttttt accagctttg ttacagacc caaatgtaaa 480
 tattaaaaat aaatatttgc aattttctac agaattgaat acctgttaa gaaaaattac 540
 agaataaact tgtgactggt cttgtttta 569

<210> 164

<211> 375

<212> DNA

<213> Homo sapiens

<400> 164

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 ttggggccaa gctgtactcc acgtccatcg acatgtggtc agccggctgc atctttgcag 120
 agctggccaa tgctgggagg cctcttttc cggcaatga tgcgatgac cagttgaaga 180
 ggatcttccg actgtggggg acgcccaccg aggagcagtg gccctctatg accaagctgc 240
 cagactataa gccctatccg atgtaccggg ccacaacatc cctggtgaac gtcgtgccca 300
 aactcaatgc cacaggagg gatctgtgc agaacctct gaagtgaac cctgtccagc 360
 gtatctcagc agaag 375

<210> 165

<211> 549

<212> DNA

<213> Homo sapiens

<400> 165

gtttgcctc acctaataagg ctgggagact gaagactcag cccgggtggc tgcagaaaaa 60
 tgattggccc cagtccccct gttgtccct tctacaggca tgaggaatct gggaggccct 120
 gagacaggga ttgtgttca ttcaatcta ttgcttacc atggccttat gaggcaggtg 180
 agagatgttt gaattttct ctctcttta gtattcttag ttgtcagtt gccaaaggatc 240
 cctgatecca tttctcttg acgtccacct cctaccccat aggagttaga agttagggtt 300
 taggcatcat ttgagaatg ctgacacttt ttcagggtg tgattgagtg agggcatggg 360
 taaaaatatt tctttaaaag aaggatgaac aattatatt atattcagg ttatatcaa 420
 tagtagagtt ggctttttt tttttttt ggtcatagt ggtggattg ttgcatgtg 480
 caccttgggg ttttgaatg acagtctaa aaaaaagca tttttttt atgattgtc 540

tctgtcacc

549

<210> 166

<211> 230

<212> DNA

<213> Homo sapiens

<400> 166

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cctcccatca gctctacatc tgaggacat ggtgtgccac aggetgcaag ctgcaggaa 60
tttcattgg atgcagttgt atagttttac actctagtgc catatattt taagacttt 120
cttccttaa aaaataaagt acgtgtttac ttggtgagga ggaggcagaa ccagctctt 180
ggtgccagct gtttcacac cagactttgg ctcccgttt ggggagcgcc 230
```

<210> 167

<211> 329

<212> DNA

<213> Homo sapiens

<400> 167

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atccccttag tgctctgaaa tatttataaa atgatcttta tataactgtg gatcattcag 60
accagaaga gacaaaagag tttagctcc tggcatcagc tctattcaa tctggttcag 120
attttacagc tctgggcttt tctgatgtgg atcacaccta tgctcaaaga actcagctct 180
ttgacacctt agtaaatttc ttctctgaca gcatgactcc tctaaaggc aacctcgtag 240
acctgatcac actgtaactg aagagtcact ggacacagaa atggaaaaca ggagtcgatt 300
ttccgtctt tggattgcag ctccactga 329
```

<210> 168

<211> 437

<212> DNA

<213> Homo sapiens

<400> 168

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tccatctgcc ccaggacaag agcaagaagg acatcagttg cccagtcattg tgatcccctg 60
ccatcttgcc ttaggaaacag ccttcccca ccagcagcca tggctggctg gggcgtagc 120
caagccacct actgccagga attggagcct cagttccctc ctgtgtcaag tagctaactg 180
cagcagctgg actgagggca gagtctgtgg gtgcagagac cctgcatgta ggacacaggt 240
tgaggcccag ccactctccc tggggcctgg tgggtaggca agtagctctg gggccacctc 300
aagtgaccaa atgctattaa ttccatcct ttagcaggct gggccctagg caggaaagct 360
gcttctggga gaggagttag aacgtgcagg gcctgcctag ctgctgtgct tgaggaaggt 420
ggcattccgt gcttgcc 437
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<210> 169

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (52)..(52)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (59)..(59)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (252)..(252)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (513)..(513)

<223> n is a, c, g, or t

<400> 169

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gccttctggg aacctatgga gaaaggggaat ccaaggaagc agccaaggct gntcgcagnt   60
tccttagct gcacctctg ctaacccac catcacactg ccacctgcc ctagggtctc   120
actagtacca agtgggtcag cacagggtg aggatggggc tcctatccac cctggccagc   180
accagctta gtgtggggac tagccagaa acttgaatgg gacctgaga gagccagggg   240
tccctgagg cnccttagg ggtttctgt ctgccagg gtgtccatg gatctcctg   300
tggcagcagg catggagagt cagggtgcc ttcattggcag taggtctaa gtgggtgact   360
ggccacaggc cgagaaaagg gtacagctc taggtgggt tccaaagac gcctcagc   420
tggactgagc gtctccca cagggttct gtgcagctgg atttctctg ttgcatacat   480
gcctggcacc tgtctccct tgtcctgag tgncccaaca tggggtctg agcaggtgt   540
atctgattc tggc
554
```

<210> 170

<211> 309

<212> DNA

<213> Homo sapiens

<400> 170

```
ctcggaattc cctgaagcaa cactgccaga agtgtgttt ggtatgcact ggttccttaa   60
gtggctgtga ttaattattg aaagtgggt gtgaagacc ccaactacta ttgtagagt   120
gtctattct ccttcaatc ctgtcaatgt ttgtttatg ttttgggg aactgtgtt   180
tgatgtgat gtgttataa ttgtataca ttttaattg agcctttat taacatatat   240
tgttatttt gtctcgaaat aatttttag ttaaatcta tttgtctga tattggtgtg   300
aatgctgta
309
```

<210> 171

<211> 302

<212> DNA

<213> Homo sapiens

<400> 171

```
cctccctatc gtctgaacag ttgtcttct cagcctctc ccgccccac cttgggaatg   60
taaatacacc gtgacttga aagttgtac ccctgtcctt ccctttacgc cactagtgtg   120
taggcagatg tctgagccc taggtggtt ctaggattga tagcaattag ctttgatgaa   180
cccatccag gaaaaataa aacagacaaa aaaaaaggaa agattgggtc tcccagcact   240
gtcagcagc cacagcctc ctgtatgct gtgcttggt tactgataag ccctctacaa   300
aa
302
```

<210> 172

<211> 491

<212> DNA

<213> Homo sapiens

<400> 172

tgctctgcc cagcttgggc agatctccca catgccaggg gcctttgggt gctgttttgc 60
 cagcccattt gggcagagag gctgtgggtt gggggagaag aagtaggggt ggcccgaag 120
 ggtctccgaa atgctgtctt tcttgctccc tgactggggg cagacatggt ggggtctct 180
 caggaccagg gttggcacct tccccctccc ccagccactc ccagccagc ctggctggga 240
 ctgggaacag aactcgggtg cccaccatc tgctgtctt tctttgcat ctctgtcca 300
 accgggatgg gagccgggca aactggccgc gggggcaggg gaggccatct ggagagccca 360
 ggtcccccc actcccagca tcgactctg gcagaccgc ctctccgc cgcccagccc 420
 acccatggc cggctttag gagctccata cacacgtgc ctccgtacc caccacaaa 480
 catccaagt g 491

<210> 173
 <211> 122
 <212> DNA
 <213> Homo sapiens
 <400> 173

ccggggctgg tttctatga acgattccgg cctgggatgc gggccaggct gcaggcggca 60
 tagttgggcc cattcgtctt ggaaagggac tgggggggtcc caacttagcc ctgggtgggc 120
 cg 122

<210> 174
 <211> 536
 <212> DNA
 <213> Homo sapiens
 <400> 174

attccgatcc caatgagcaa gtgacaagaa aaaacatgct cctggctaca aaacagatat 60
 gcaaagagtt caccgacctg ctggctcagg accgatctcc cctggggaac tcacggccca 120
 accccatctt ggagcccggc atccagagct gcttgaccca cttaacctc atctcccacg 180
 gcttcggcag ccccgcggtg tgtcccgcg tcacggccct gcagaactat ctaccgagg 240
 ccctcaaggc catggacaaa atgtacctc gcaacaacc caacagccac acggacaaca 300
 acgcaaaaag cagtgcacaa gaggagaagc acagaaagt aggctctct cccgccccgc 360
 cctcccacg cctcaccagc cccccgcgc cccacctcc ggcgggtgac agtccggga 420
 tcagcaacc ttctgtctg tgctactgt gctgtgtctg ccgcccgcg cgccgccgt 480
 gccctgggt cccccgagt ctccgggact gccctctga ctgtcagtgg ggcagc 536

<210> 175
 <211> 487
 <212> DNA
 <213> Homo sapiens
 <400> 175

gatgatttct cgaaagccat gccagaagca gtcttcagg tcatttcta gaactccagc 60
 ttgttgaaa atcaggacc tcagctacat cataactga ccagagcaa agctttccct 120
 atggttcaaa gacaactagt attcaacaaa ccttgtagt tgtagtttt gccatattta 180
 atattaatag cagaggaaga ctctttttt catcactga tgaattttt ataattttt 240
 tttaaaatat attcatgta tacttataaa ctaattcaca caagtgttg tcttagatga 300
 ttaaggaaga ctatatctag atcatgtctg atttttatt gtgactctc cagccctggt 360
 ctgaatttct taaggtttta taaacaaatg ctgctattta ttactgcaa gaatgcactt 420
 tagaactatt tgacaattca gactttcaaa ataaagatgt aaatgactgg ccaataataa 480
 ccatttt 487

<210> 176

<211> 504

<212> DNA

<213> Homo sapiens

<400> 176

```

ccggctatgg gctcgagccg agttcctca acatgcactg cgcgccttt gagcagaacc   60
tctccggggg gtgtcccggc gactccgcca aggcggcggg cgccaaggag cagagggact  120
cggacttggc ggccgagagt aacttccgga tctaccctg gatgcgaagc tcaggaactg  180
accgcaaacg aggccgccag acctacaccc gctaccagac cctggagctg gagaaagaat  240
ttactacaa tcgtacctg acgcggcggc ggcgcacga gatcgcgcac acgctctgcc  300
tcacggaaag acagatcaag atttggttc agaaccggcg catgaagtgg aaaaaggaga  360
acaagaccgc gggcccgggg accaccggcc aagacagggc tgaagcagag gaggaagagg  420
aagagtgagg gatggagaaa gggcagagga agagacatga gaaagggaga ggaagagaag  480
cccagctctg ggaactgaat cagg                                     504

```

<210> 177

<211> 356

<212> DNA

<213> Homo sapiens

<400> 177

```

gaatcaggaa actcaaatcg aatagggaag taaaaaaca aaacaaaaaa caaaaaaaa   60
caaaaaaaa ccctatttaa atgaaaggag tttaaaaca tttttaagg agggagaaag  120
gagaaatfff ggttttcaa cactgaaaaa atagtaccta taggaaagtc tgcaggttt  180
ggttttttg tacaatatga aaaggacatt atctacctgt tctgtagctt tctggaattt  240
acctccctt ttctatgtg ctattgtaag gtctttgtaa aatctgcag tttgtaagc  300
cctctttaat gctgtctttg tggactgtgg gtctggacta accctgtggt tgctctg   356

```

<210> 178

<211> 225

<212> DNA

<213> Homo sapiens

<400> 178

```

ccgagctgaa gaaccagcgg ctcaaggagg tttccagac caagatccag gagttccga   60
aggcctgcta cacgtcacc ggctaccaga tcgacatcac cacggagaac cagtaccggc  120
tgacctgct gtacgccgag caccagggcg actgctcgc tcaaggcca ccagcccctc  180
gggtccaag atgcagctac tggagacaga gttctcacac accgt                                     225

```

<210> 179

<211> 380

<212> DNA

<213> Homo sapiens

<400> 179

```

tactgcttgc agtaattcaa ctggaaatta aaaaaaaaa actagactcc attgtgcctt   60
actaaatatg ggaatgtcta acttaatatg ctttgagatt tcagctatgc tagaggcttt  120
tattgaaag ccatatttt ttctgtaaaa gttactaata tatctgtaac actattacag  180
tattgctatt tatattcatt cagatataag atttgtacat attatcatcc tataaagaaa  240
cggtatgact taattttaga aagaaaatta tattctgttt attatgacaa atgaaagaga  300
aaatatatat ttttaatgga aagttttag cattttcta ataggtagt ccatattttt  360
ctgtgtggag tattttata                                     380

```

<210> 180

<211> 440
 <212> DNA
 <213> Homo sapiens
 <400> 180

```

tgctgtctgg ggattactcg atcaaaacct tccttcctg gctactccc ttctcccgg   60
ggccttcctt ttaggtgctg gagctggagg ggtggggagc tagaggccac ctatgccagt  120
gctcaaggtt actgggagtg tgggctgccc ttgtgcctg cacccttccc tcctccctct  180
ccctctctct gggaccactg ggtacaagag atgggatgct ccgacagcgt ctccaattat  240
gaaactaatc ttaacctgtg gctgtcagat accctggtt tctggagtca cagtcagtga  300
ggaggatgtg gtaagaggag gcagagggca ggggtgctgt ggacatgtgg gtggagaagg  360
gagggtggcc agcactagta aaggaggaat agtgcttgc gccacaagg aaaaggagga  420
ggtgtctggg gtgagggagt                                     440

```

<210> 181
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, or t
 <400> 181

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gcttttacgg tgatatttg catgcaaacc aggagcattt nggtcttaa gaaaaataat   60
cttagaacag atggctgtga aaattacacc catgcacaga acaagccaca ggaataatag  120
ttcaggattt ggttttctc ttttcttgt aaacctggag ggttgatata tttttccat  180
gcagttatta gaacttagtt ttgtccaac agttaactt gcaatgaaa gaaaatgtgc  240
cattttttc actcagaatt attcatagct gtatattga aactgctaat tacacacgtg  300
tgatgtatgt tggttttta gtgcaattc ttctgtagct attcttgac caaactgtgg  360
gtattgttaa tattaattt tattgtctc atttgtatg tatgttagt gtgtttgtga  420
gtatgtgtgg ttataatct gacaaagtca tgaagctcag ttggctgta atttaattcc  480
ccttccctta ttttattt ttttgtact gtgctgat                                     518

```

<210> 182
 <211> 538
 <212> DNA
 <213> Homo sapiens
 <400> 182

```

caggtatgtt gccttatgg ttccccctt ctacattct tagactacat ttagagaact   60
gtggccgtta tctggaagta accatttgca ctggagtct atgctctgc accttccaa  120
agttaacaga tttgggggtt gtgtgtcac ccaagagatt gttgttgcc atacttgtc  180
tgaaaaattc ctttgtgtt ctattgactt caatgatagt aagaaaagtg gttgttagtt  240
atagatgtct aggtacttca ggggcacttc attgagagt ttgtcttgc atacttgtc  300
tgaaaaattc ctttgtgtt ctattgactt caatgatagt aagaaaagtg gttgttagtt  360
atagatgtct aggtacttca ggggcacttc attgagagt ttgtcaatgt cttttgaata  420
ttccaagcc catgagctct tgaaaatatt tttatatat acagtaactt tatgtgaaa  480
tacataagcg gcgtaagttt aaaggatgtt ggtgtccac gtgttttatt cctgtatg  538

```

<210> 183
 <211> 498

<212> DNA

<213> Homo sapiens

<400> 183

```
tcagtctctc aaagacccca tgggtccatcc cctgagggtg gtcagccaag gctcccgttc   60
cgtgggatgc cataaaagcc gccagtgagg acccacagtc acacagagcg cctcacctgc   120
atcctctccc ccacaagagc cccaaagatc ccacgggaga ggggagaggg acgcacagca   180
ctgcctgcca agcgagaatg caggccccgc cccctcggcc cctcaccacc tctttctaca   240
gcctaattta ttggattccc tattcgtagc catctccgtg gccaatgtga ctaccgtgcc   300
agcagcgggg gcggcccagc ctctgagtc cgtggggccc cggctccac cggtgccaaa   360
cccagccct gcggccgta ccccgccagc ctacactgcc agccgccacc ggggcacacg   420
ggcctctgct tgccagccag gagtgcggac accatgttcc cagctcagtg ccaaagaggg   480
gtcaccaggg ggagctgt                                     498
```

<210> 184

<211> 421

<212> DNA

<213> Homo sapiens

<400> 184

```
cttactgtgt ttctagtcac ttctttctg tgaaggttg cttagcttt ttttgacat   60
ttgtgttct ttatataaaa ataacagatt ggatagatgt gtacatttgg tgttgaaat   120
tctctgaaaa tccattagg aaaccaggtg tgaagggc tcagtagct ctctgagtg   180
cgttttagc tgactggaag tgctaatct ggatcgtct tttttttt ttttttca   240
atatttaaa aggagaattt aaatacttg cttactgtga aatatatcag ttggtgagcc   300
ggcggtgtg ggtcacgct gtaatccag cactttgga ggccaaggcg ggtggatcac   360
ccgaggtcag gagtcaaga ccagcctggc caacgtgtg aaagcctgta tctattaaa   420
g                                     421
```

<210> 185

<211> 498

<212> DNA

<213> Homo sapiens

<400> 185

```
gtcctttgca acattctcat aaaattgggc acagagttcg cattggcgca atatttatgg   60
gagtgggagg gatggggaaa ataaactaa ctctacaaaa gcaaactcta atgcatgcaa   120
gaatcattag gttggcaggt atatgcataa gtgaaaaatc tggaagtga atggtagaac   180
ataaaactg tattgttct gttcagtc aaaaatgtac tagccaatac gcttaagtgt   240
gtggcccatg aattgaacaa ttaacctg aagtctatat cegtatatt atgtcgattt   300
ttaactgagg ggaaattaac tagtcagcc taaaatgctt ctttaatct gcattctgtt   360
tcctctcta gttgtccat tactagtgt catgttttt tccccctt aatgaaaaca   420
ataaacatct atttagaca attaaaatcc ttctgggggc actggaagca caatacgtg   480
accaatctg ctttcatt                                     498
```

<210> 186

<211> 426

<212> DNA

<213> Homo sapiens

<400> 186

```
gatgcctct gattatatt cacatttca ggaacaaaat gattaaaag cattgctaga   60
aaatctctt caaaatatcc aatccaaaaa aagaagaat gtagaaatta tgtgctggc   120
tgcaacgatt tgccgcaaac tgaatggtat tcgttcacc tgttgtaaaa gtgccaaaga   180
```

caggacatcg atgtcagtga cacttgaaca atgctcaatc ttgagagatg agcaccagtt 240
 acacaaggac ttctttatcc gagcgctgga ttgcatgaga agagaaggat gccgcataga 300
 gaatgtactg aagaatatca aatgcagaaa gtatgcttc aacatgctac agctgatggc 360
 ttccccaag tactacagac ctccagaggg gacttatgga aaagctgaca cctaagtta 420
 ccaaca 426

<210> 187

<211> 419

<212> DNA

<213> Homo sapiens

<400> 187

tgaaggcag gacctggta cccagcaag tgctatggac agttcccgga aacggttgcc 60
 cacttcacag gtccatgggt ctgacccttg gactctgcca ggatcaactg cccagagtgc 120
 cagagtitta gccaaagggt tacttacttc cttattatc tccaaaagga tggaaactgt 180
 gggagtcaaa gcctattttg ctgagtgttc ccaactggatc ctctgtagaa ttagcaggtc 240
 atgctgtcaa aatcatggac aaaggctggg tgcaagtggct catgcctata atcccagcac 300
 ttggggaggc caagggtggc ggatcacctg agctcaggag ttaagacca gcctgggcaa 360
 catggggaaa ctccatctct acaaaatata caaaatatta gccagccatc gtggtgcgt 419

<210> 188

<211> 481

<212> DNA

<213> Homo sapiens

<400> 188

gccgtcacc gaagtcagaa acgtggcatc tcatcggaag aggaggaagg agaggtagac 60
 agtgaagtag agctgacatc aagccagagg tggcctcaga gcctgaacat gcgccagtca 120
 ctatctacct tcagctcaga gaatccatca gatggggagg aaggcacagc tagtgaacct 180
 tccccagtg gcacacctga agttggcagc accaactctg atgagcggcc agatgagcgg 240
 tctgatgaca tgtgtccca gggctcagaa atcccactgg acccacctcc tcagaggtc 300
 atccctggcc ctgaaccag ctccctgccc attccacacc aggaactct cagagagcgg 360
 ggccctccca attctagga ctgagactgt gacagcactg aattggacaa ctccaacagc 420
 gttgatgcct tgcggccccc agcttccctc cctccatgaa agccactcgt attccttgta 480
 c 481

<210> 189

<211> 424

<212> DNA

<213> Homo sapiens

<400> 189

acttctacc agcagtcgtg gggaacggag gaggacatgg ggaggttgtg gggcctcagg 60
 ctccgggac cagggggcaa cctcaggctc ctaaagagac atttccgcc cactcctggg 120
 aactcctgct tgcctaatg actgagcagc atccaccca cccatcttt gctgccagct 180
 ctgaggaccg tgcctcgtc agctgggatg tgaagtctct ggggtggaagt gtgtccaag 240
 agctactccc acagcagccc caggagaagg ggctttgtga ccagaaagct tcatccacag 300
 ccttgagcgc gctcctgcaa aaggaggtga aatccctgcc tcaggccaag ggaccaggtt 360
 tgcaggagcc cccctagtgg tatggggctg agccctcctg agggccggtt ctaaggctca 420
 gact 424

<210> 190

<211> 515

<212> DNA

<213> Homo sapiens

<400> 190

```
aatgcagctg acgatccgtt ggtgcatgaa agtcttctaa ccattccaaa atctctttca   60
gagaaacgag agaacgtcat gttgtgctg cctctgcatg ggggccactt gggcttcttt   120
gagggctctg tgctgttccc cgagcccctg acatggatgg ataagctggt ggtggagtac   180
gccaacgcca ttgccaatg ggagcgtaac aagttgcagt gctctgacac ggagcaggtg   240
gaggccgacc tggagtgagg cctccggact ctggcacgct ccagcagccc tcctctggaa   300
gctgcgtccc ctcaccccct gtttcaggtc tcccatctcc ctcagtgacc tggatctgac   360
ctcacaccat cagcaggggg caccaccat gcacacctgt ctcgagtag gcagctcttc   420
ctgggagctc caggctattt ttgtgcttag ttactggttt tctccattgc attgttaggc   480
atggtgacaa gtgacagagt tcttgcctc tgtcc                               515
```

<210> 191

<211> 434

<212> DNA

<213> Homo sapiens

<400> 191

```
caggtgtatc tgcacagtgg tgcgccca gcagaccatg tgttcacggg atgcccgcac   60
aaaacagctg aggcagctac tggagaaggt gcagaacatg tctcaatcca tagaggtctt   120
ggacaggcgg acccagagag acttgacgta cgtggagaag atggagaacc aaatgaaagg   180
actggagtcc aagttaaac aggtggagga gagtataag caacacctgg ccaggcagtt   240
taagggtctaa cttaaaagag tttttcaat gctgcagtga ctgaagaagc agtccactcc   300
catgtaacca tgaagagag ccagagagct tttgcacca tgcattttta ctatttttt   360
ccaatactta gcaccatttc actaaggaac cttgaatata accaggatcc tccttgcac   420
gcgactgtag ctgc                               434
```

<210> 192

<211> 403

<212> DNA

<213> Homo sapiens

<400> 192

```
aaaatgttgc gttctcagtc caaaaagaag tggaaaagaa tctgaagtca tgcttggaca   60
atgttaatgt tgtgtccgta gacactgcc aacactatt caaccaagtg atggaaaagg   120
agtttgaaga cggcatcatt aactggggaa gaattgtaac catatttga ttgaaggta   180
ttctcatcaa gaaacttcta cgacagcaaa ttgccccgga tgtggatacc tataaggaga   240
ttcatattt tgttgcggag ttcataatga ataacacagg agaatggata aggcaaacg   300
gaggctggga aaatggcttt gtaaagaagt ttgaacctaa atctggctgg atgacttttc   360
tagaagttac aggaaagatc tgtgaaatgc tatctctct gaa                               403
```

<210> 193

<211> 355

<212> DNA

<213> Homo sapiens

<400> 193

```
ggctgggagt tgattgagcc aacactggat caattagatc aaaagatgag agaagctgaa   60
acagaaccgc atgagggaaa gaggaaagtg gaatctctgt ggcccatctt caggatccac   120
caccagaaaa cccgctacat ctctgacctc tttaacaagc ggaaagccta cagcagagaa   180
ctcttagata tatgttataa agaaggctta gcagacaaaa acctgttggc aaaatggaaa   240
aagcaaggta taggaaactt gtgctgcctg cggtgcattc agacacggga caccaacttc   300
```

gggacgaact gcattctgccg cgtgccccaaa agcaagctgg aagtgggccg catca 355

<210> 194

<211> 527

<212> DNA

<213> Homo sapiens

<400> 194

gggtgggtct ggccaggaag gcacaaggta gctgtgggcc aagacaccag ccctgtccta 60
 gcccttcagt aagacctgc caggagagga gaaggatgcc tgggtgccag gcaagacaag 120
 cccctcagca ggagagaggc ccagaggctc cagctggcca ccgtgcccc caagatggcc 180
 cctgtgtgtt tccctttacc ttgcttctt ggcccagtc ctgctctcc acctgcaccc 240
 tcttctctgg cccagtccca ggttgagtc cctctgcata gctgactact catgcattgc 300
 tcaaagctgg cttttacat taagtcaaca ccaaactgtg ttgccacatt tcatcagaca 360
 gacacctccc tctggagatg cagttgagtg acaacctgt tacattgtag cctagaccaa 420
 ttctgtgtgg atatttaagt gaacatgtt acaattttg tatatatcac tctctccctc 480
 tctgaaaga ccagagattg tgaatttca gtgtcccatg ttccgac 527

<210> 195

<211> 531

<212> DNA

<213> Homo sapiens

<400> 195

aacagaaagt ctacagcccag gatggggctt ctcaacagg cccctgccct cctgaagcct 60
 cagctcttca ccttgccagg tgccgtttct ctccgtgaa ggccactgcc caggtcccca 120
 gtgcgcccc tagtgcccat agcctggta aagttccca gtgcctctt gtgatagacc 180
 ttcttctccc accccttct gccctgggt ccccgccat ccagcggggc tgccagagaa 240
 cccagacct gcccttacag tagttagcg cccctccct cttcggctg gtgtagaata 300
 gccagtagtg tagtgcggtg tgctttacg tgatggcggg tgggcagcgg gcggcggcgt 360
 ccgcgcagcc gtctgtctt gatctgccc cggcggcccg tgtgtgtt tgtgtgtgt 420
 ccagcgttaa ggcgaccccc tccccgtac tgacttctc tataagcgt tctcttgcga 480
 tagtcagta gtcccaccc caccctctc ctgtgtctca cgcaagttt a 531

<210> 196

<211> 441

<212> DNA

<213> Homo sapiens

<400> 196

cttggcctgc taaggtctt gaacttgctt gcctttccat ccatggccag cagcacctgc 60
 cctacctgcc ccaattgtcc ttagcctgga cctctgacag cagcatctct accttctccc 120
 cagctcccag gaccacaggc tcaggcaggg ctccatggg cccagggga acactgggga 180
 cttggcctct ctctagggtg catggtgctg ggagaggcag cccaggaagt ctcatctggg 240
 gagcaggcag ccagcatctg ggccttggcc tggagcaca agacctggc ttcatcttc 300
 tctcaggtga aaggaaatta aggaacaaa agaagcccgg ctcttggtca cctaggaagc 360
 ctcagattcc ttccatgga gggaggaggt ggtttgcagg tggccaagt cctctaact 420
 ggctcacact cgacatgaa a 441

<210> 197

<211> 552

<212> DNA

<213> Homo sapiens

<400> 197

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gcagtcacctta tttagctaaaa gcccataag acaagaaaca caggaagccc ctggtcccag   60
agaagaagca aagggccagg tagaggccag aagggagtct ttggatcctg tccaggagcc   120
tgggggccag gcagaggctg atggagatgt tccagggccc agaggggaag ctgagggcca   180
ggcagaggct aaaggagatg cccctgggcc cagaggggaa gctgagggcc aggcagaggc   240
taaaggagat gccctgggc ccagagggga agctgggggc caggcagagg ccaggagaa   300
tggagaggag gccaaggaac ttccagggga aacactggag tctaagaaca cccaaatga   360
ctttgaggtg cacattgttc aagtggagaa tgatgagatc tagatctaa gatacaggta   420
cccacagaag tctcagtcc agaacataag cctgaagtg ggcaggggaa atgtacgtg   480
ggacaaggac catctctgtg cccctgtct ggtcccagta ggtatcaggt ctttctatgc   540
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<210> 198

<211> 467

<212> DNA

<213> Homo sapiens

<400> 198

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agcaggaggag gcttctgcca ttctgagat caaaacgggt ttactgcagc ttgtttgtt   60
gtcagctgaa cctgggtaac tagggaagat aatattaagg aagacaatgt gaaaagaaaa   120
atgagcctgg caagaatgcg tttaaacttg gttttaaaa aactgctgac tgtttctct   180
tgagagggtg gaatatccaa tttcgtctgt gtcagcatag aagtaactta cttagtgtg   240
ggggaagcac cataactttg tttagccaa aaccaagtca agtgaaaaag gaggaagaga   300
aaaaatattt tctgccagg catggaggcc cagcacttc gggaggtcga ggcaggagga   360
tcaactgagt ccagaagttt gagatcagcc tgggcaatgt gataaaaccc catctctaca   420
aaaagcataa aaattagcca agtgtgtag agtgtgcctg aagtccc                     467

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<210> 199

<211> 562

<212> DNA

<213> Homo sapiens

<400> 199

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tcaactcaaca gcaactgtgat gtattatctt caatgagggt cctttcttaa ctgaccaaatt   60
gtgccttgt ttggccccta aatcaataaa atatgttaaa attgtatcc cctgttgtg   120
cattttttt agataatcta agctagaaaa atgacattga attctggacc tggctggaag   180
gaaaagaagc cctttctgt cgctggcagc tgtgtgtag gaggtccaag tatgtgcata   240
tgagataagc ctgcaacctc ttgacctca gtcctatgc aggtctctct tgagcccaga   300
gacaaggcag cttggtctag tggagatagc actgtgcttg gagttcaggg gacctaggac   360
aaatcccagc cagttagtta ttcaactgtc tctgtttcc tcagctgaaa aaggaagttg   420
gttatgccac cttctggcc ttaatggcat taaatgaaat ttataggaag aaggttttg   480
ctcagtacct ggcatgcaac agacattgga taaatgttag ttgatccag atatacacag   540
aaagatatct gttcctgcc ag                                     562

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<210> 200

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (34)..(34)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (46)..(46)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (104)..(104)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (108)..(108)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (274)..(274)

<223> n is a, c, g, or t

<400> 200

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aggagcttgg cagagagata gccggggtcc agggagtggg gagnaganag ggggagaccc  120
ctttgccttc cccctcagc aaggggctgc ttctggggct ccctgcctgg atccagctct   180
gggagccctg ccgaggtgtg gctgtgaggt cagggtttta gagagcagtg gcagaggtag   240
ccccctaat gggcaagcaa ggagccccc aaanacacta ccactcccca tccccgtctg   300
accaagggct gactttcca ggacctagtc ggggggtggc tgccaggggg caaggagaaa   360
gcaccgacaa tctttgatta ctgaaagtat ttaaagtgtt gccaaaaaca acagccaaaa   420
caaccaaact at                                     432
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<210> 201

<211> 353

<212> DNA

<213> Homo sapiens

<400> 201

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cgccgctgcg aattctcgga caaaactgtc aacagcccgg gcgcgccttt tggctctgcg   60
gtccctcta ttatgcaaa gccgacctat gctacagccc cccaaccccc gacctggggg   120
aggaggaag aggggtgccg ggaagggagt ccgccctgtc caggcactag aggctccctt   180
gacgtttggc agatgaaaa caactaagcc ttttgaggt gtagagattc tcaggtccag   240
gcgttaaaaa ataatggta aaagaataat acaaaaatag taaaggtctt gaagaatgcc   300
agcgaagcaa ttcttttta ttgaggaca cttgtctggt gtacttttc atg           353
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<210> 202

<211> 546

<212> DNA

<213> Homo sapiens

<400> 202

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atcaatcagc tttgtcaca aactaaagga agttttgtga atgggggtgt tgaggtacat   60
aagaaaaatg taaggggtga attcattat tatgaaatac aagataatac agggagatg   120
gaagtgtgtg tgcatggacg actgaacaca atcaactgtg aggaaggaga taaactgaaa   180
ctcaccagct ttgaattggc accgaaaagt ggggaataccg gggagttgag atctgtaatt   240
catatgcaca tcaaggtcat caagaccagg aaaaacaaga aagacatact caatcctgat   300
tcaagtatgg aaacttcacc agacttttc ttctaaaatc tggatgtcat tgacgataat   360
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gtttatggag ataaggtcta agtcctaaa aaaatgtaca tatactggt tgaaatacaa 420
 cactatacat acacaccacc atatatacta gctgttaatc ctatggaatg ggggtattgg 480
 gagtgccttt ttaattttc atagttttt ttaataaaa tggcatatt tgcactaca 540
 acttct 546

<210> 203

<211> 246

<212> DNA

<213> Homo sapiens

<400> 203

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 gggggggcgc cggcgctcaa ccacgctgtg ctgcgcgcgc tcatgcacgc ggccgccccg 120
 ggagccgccc acctgccctg ctgcgtgccc gcgcgcctgt cgcccatctc cgtgctcttc 180
 ttgacaaca gcgacaacgt ggtgctgcgg cagtatgagg acatggtggt ggacgagtgc 240
 ggctgc 246

<210> 204

<211> 470

<212> DNA

<213> Homo sapiens

<400> 204

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 gtttgagta ggcgatgtga aggccacagt ggcagtgtg agttcatcc tctccagtgc 120
 ggccaagcac agtgtcgatg gcgaatcctt gtccagtga ctgcagcagc tggggctgcc 180
 caaagagcac gcggccagcc tgtgccgctg ttatgaggag aagcaaagcc ccttcagaa 240
 gcacttgccg gtctgcagcc tacgcaaact gaagcaggcc cagaccctga tgagctccct 300
 gggctgagga gaagggtgtt ccaggcctgt gtggagccgc cctgcccgtg ttgagtcacg 360
 ccctctgaac tgctctcgg gaggcagccc tggttctagg atgctgaggc cctggcccgg 420
 actctggcct cccagatccc cagctgcctc acttctctt tgagaacttg 470

<210> 205

<211> 469

<212> DNA

<213> Homo sapiens

<400> 205

gaactgctg gttggagcga atctgctagt gaagattggg gacttcggca tgtccagaga 60
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 gcctcctgaa agcatcatgt accggaagt cactacagag agtgatgtat ggagcttcgg 180
 ggtgatcctc tgggagatct tcacctatgg aaagcagcca tggttccaac tctcaaacac 240
 ggaggtcatt gagtgcatta cccaaggctg tgtttggag cgccccgag tctgccccaa 300
 agaggtgtac gatgtcatgc tgggtgtctg gcagagggaa ccacagcagc ggttgaacat 360
 caaggagatc tacaaaatcc tcatgcttt ggggaaggcc accccaatct acctggacat 420
 tcttgctag tgggtgctgg tggatcatgaa ttcatactct gttgcctcc 469

<210> 206

<211> 512

<212> DNA

<213> Homo sapiens

<400> 206

aggaggcaag gttggctcgg agtccccgg agcagcccag gccagcacc tccaaggcag 60

tetccaccacc ccacctggat ggaccgccta gcccaggag ccccgtcata ggaagtgagg 120
 tttctctgcc caacagcaac cacgtggcca gtggcgccgg ggaggcagag gaacgcgttg 180
 tggatgatcag cagctcgga gactcagatg ccgaaaactc gtctcccgga gagctggatg 240
 acagcagcag tgaagtcagt gacctccagc tggaaagccc cagcacctc agggctctgg 300
 acgagaacct tgctgacccc caagcagaag acagacctct gggtttcttt gacctcaaga 360
 ttgacaatga aagtgggttc tctggggct acccccaccc ctcttaatt tagtctctga 420
 gtcccaaaaa gaagtgcagg cagagcatct gccaggccca ggagagctct gagctctggc 480
 caacaactgc agccaggctg ggcagagcac tc 512

<210> 207

<211> 488

<212> DNA

<213> Homo sapiens

<400> 207

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 gaagccggct gggttctgct ccgtcattgc attcggaaag gcgaccccgga acttcgagcc 120
 cacgtgattg acaagttctt attgtgccc ttccactccg gatgggaccc tgaccacgga 180
 ggctctttt acttcagga tgctgataac ttctgcccc cccagctgga gtgggcatg 240
 aagctctggt ggccacacag tgaagccatg attgccttcc tcatgggtta cagtacagct 300
 ggggaccctg tgctgtgctg cctctctac caagtggctg agtacacctt ccgccagtt 360
 cgcgatcccg agtacgggga atggtttggc tacctgagcc gagagggcaa ggtggccctc 420
 tccatcaagg gaggtccttt caaaggctgc ttccacgtgc cgcgggtgct agccatgtgc 480
 gaggagat 488

<210> 208

<211> 459

<212> DNA

<213> Homo sapiens

<400> 208

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 ctggtcatgg ctcttgggg cggcgatggt aggggccgtc ctactgccc tgctggcagg 120
 gcttgtagc ttgctgtgct gtcacaagag aaagcagctt cctgaagaaa agcagccact 180
 cctcatggag aaagaggatt accacagctt gtatcagagc cattataaa aggcttaggc 240
 aatagagtag ggcaaaaag cctgacctca ctctaactca aagtaatgtc caggttccca 300
 gagaatatct gctggtattt ttctgtaaag accatttga aaattgtaac ctaatacaa 360
 gtgtagcctt ctccaactc aggtagaaca cacctgtctt tgtcttgctg ttttactca 420
 gcccttttaa cattttccc taagcccata tgtctaagg 459

<210> 209

<211> 533

<212> DNA

<213> Homo sapiens

<400> 209

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 ttcttggtga cgccaggggc tggtaggtca ttcaaagctg tggccagctc acgcctgctt 120
 cctccctccc tggcctgctg aatcctaaag ctgtgcctat atctgtgatt tgaatgaggg 180
 agccctttgg ggcaattca ggtgccccca ttgcctcagg ctggccctgg tcccaggtgg 240
 cagcgggtga ggaggggtac agggctctca agcctgaggt ttcttctct gggcttaatt 300
 ttctcttggg gtacgtgctt gacagtgttt aaggtgtccg ttgaactgga gttgcagact 360
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ctgtcactca gacacctgtg gcatgtggag gagactgccc tgcctgagc ctggaaaatg 480
 tgaaactgtc tctgcaacc tgctgggcat gtgggcctgg ctgtgtcaa ttg 533

<210> 210

<211> 438

<212> DNA

<213> Homo sapiens

<400> 210

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 tctgaagggt ctgatgccag cacaattgaa attcacactg caagtgaatc ctgcaacaaa 120
 aatgagggtg accctgtctt cccaacccat ggagacctat gaaggggatg tgctgggggt 180
 ccagacccca tattctcag actcaacaat tctgttctt tagaactgtg ttctacatt 240
 cccaacactg cactgccgaa gtgtagcggc ccccaaacct tgctctcacc accagctaga 300
 gcttcttccc gaagggcctt taggatagga gaaaggggtc atgcacacac gtgtgagaat 360
 ggaagagccc cctccagacc actctacagc tgctctagcc ttagtgtcca ctaggaaatt 420
 ttctgaggct ggctgtaa 438

<210> 211

<211> 135

<212> DNA

<213> Homo sapiens

<400> 211

cctgaggccc atcaaagtgg acagccaaga gcacaagatc atcctctatg aaaaccccaa 60
 cttcaccggg aagaagatgg aaatcataga tgacgatgta cccagcttcc acgcccattg 120
 ctaccaggag aagggt 135

<210> 212

<211> 440

<212> DNA

<213> Homo sapiens

<400> 212

tcaaggcgct aggcgacgag ctgcaccagc gcaccatgtg gcggcgccgc gcgcggagcc 60
 ggagggcgcc ggcgcccggc gcgctccca cctactggcc ttggctgtgc gcggccgccc 120
 aggtggcggc gctggcggcc tggtgtctcg cgaggcggaa cttgtaggaa cgcggggctt 180
 cttgtggggg ccggagccga gaccagccg gagcgagcaa caggttggtg aaaacctgt 240
 gtccttgag aaagctggtt cccgtttcc agagggggag cccagagctt gaaaggccgc 300
 ggttggcact tcgagaagga agtgagagt aaagacagcg cctggagcga tcgtagaac 360
 acagaatggg actggggaag ccctttggaa atccagctgc agaaacagac accccaatgc 420
 tatttacata cagcttata 440

<210> 213

<211> 489

<212> DNA

<213> Homo sapiens

<400> 213

aagtctgtag tctttatgat cctaaaaggg aaaattgcct tggtaacttt cagattcctg 60
 tgggaattgt aattcatact aagctttctg tgcagtctca ccatttgcatt cactgaggat 120
 gaaactgact ttgtctttt ggagaaaaaa aactgtactg ttgtcaaga gggctgtgat 180
 taaaatcttt aagcatttgt tctgccaag gtagttttct tgcattttgc tctccattca 240
 gcatgtgtgt ggggtgtgat gtttataaac aagactaagt ctgacttcat aagggtttc 300

taaaaccatt tctgtccaag agaaaatgac ttttgcctt gatattaaaa attcaatgag 360
 taaaacaaaa gctagtcaaa tgtgttagca gcatgcagaa caaaaacttt aaactttctc 420
 tctcactata cagtatttg tcaatgtgaa agtgtggaat ggaagaaatg tcgacctgt 480
 tgtaactga 489

<210> 214
 <211> 514
 <212> DNA
 <213> Homo sapiens
 <400> 214

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 aaaaaatgag cacagagttc acgtgcaaat ggagccgta tgacacactt tcttacaaca 120
 acagccactg tgttggtgag agagggatgg ggtgggcca acggggacac aaggaggcag 180
 aggagctaac cctctactc cactttcaaa actacattt aaagggaatg tgtatgtgaa 240
 gagcactacc aacatcgctt ttgtttgtt ttgtttgtt ttaagctttt ttttttgc 300
 tgttttaaa gccaaaacaa aaaacaacca agcactcttc catatataaa tctggctgta 360
 ttcagttagca atacaagaga tatgtagaaa gactcttgg ttcacattcc gatattaaaa 420
 tagtgacatg aactggcaaa gtggtttta aagctttcac gtgggataaa tgattttctt 480
 tttttctt ctttctct atggtcttgc ctga 514

<210> 215
 <211> 543
 <212> DNA
 <213> Homo sapiens
 <400> 215

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 tgggacagcc aggggggtgtg cccacggctg acccaggggt gtgcacacgg ctgagctggg 180
 agtcccgctg gtctccctga ggactgaggg tgaactcgc tcttgcctt aaacctctt 240
 atttcattgc agtaatatgt ttacgttga cataatagt taaaccttt taaaaaggaa 300
 agtataaaaa caaaagtgt aatttaaaag tctgaataac catctgctgc ttaggaaact 360
 caatgaaatg acatgccttt ttagcaggaa gcaaagtgg ttctgtttt ttgtttctt 420
 tgttgttta gttataaaa catgtgcatt ttacagtca gtatcaataa ttataatct 480
 tatgagaaat gaatgaatgt ttctatttac aactgtgctt atcaaaattg tgaacacccc 540
 cac 543

<210> 216
 <211> 518
 <212> DNA
 <213> Homo sapiens
 <400> 216

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 cattctgcac tacctgggg tagcctcaa tggaaccaag gccagtgggg ctcccactag 120
 ttctcggga tctcaatag gctctctac aaccacctt cccactaaac ccccatcctt 180
 caacctgcac cccgcccctc acttgcctg tagtatgcag ctgcagaaac ttaatagcca 240
 gtatcagggg atggtctgtg ccactccagg ccaaccggg gaggcaggac cctgcaaaa 300
 ctgggacttt ggggcccagg cgggaggggc agaatactc tctcttctg ctggtgccca 360
 gagccctgct atcatcgatt cggaccaggt ggatgaggaa gtgctgatgt cgctggtggt 420
 ggaactgggg ttgaccgag ccaatgagct tccggagctg tggctggggc agaagagtt 480
 tgacttact gggactttc catctagctg ctaatgcc 518

<210> 217

<211> 480

<212> DNA

<213> Homo sapiens

<400> 217

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gcaccagatg caacctact atggtatgct ggccagcacc ctctcctggg ggtggcaggc 60
acacagcagc cccccagcac taaggccgtg tctctgagga cgtcatcgga ggctgggccc 120
ctgggatggg accagggatg ggggatgggc cagggtttac ccagtgggac agaggagcaa 180
ggtttaaatt tgtattgtg tattatgttg ttcaaatgca tttgggggt ttttaacttt 240
tgtgacagga aagccctccc ccttcccctt ctgtgtcaca gttcttggtg actgtccac 300
cggagcctcc cctcatgatg atctctccac ggtagcactt gacctttcg acgcttaacc 360
ttccgctgt cgccccagcg cctccctgac tccctgtggg ggtggccatc cctgggcccc 420
tccagcctc ctggccagac gctgccgctg ccgtgcacc acggcgtttt ttacaacat 480
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<210> 218

<211> 472

<212> DNA

<213> Homo sapiens

<400> 218

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tcatttagct cagctatggc acccccatga acaagactat aagaaaagtt cccttgttt 60
cacagctatc acatggatat cctttagttc ttcagcctct aaacctactc tgtattcaat 120
ttataatgcc aattttcgga gagggatgaa agagactttt tgcattgctt ctatgaaatg 180
ttaccgaagc aatgcctata ctatcacaa aagttcaagg atggccaaaa aaaactacgt 240
tggcatttca gaaatccctt ccatggccaa aactattacc aaagactcga tctatgactc 300
atttgacaga gaagccaagg aaaaaaagct tgcctggccc attactcaa atccacaaa 360
tactttgtc taagttctca ttcttcaat tgttatgcac cagagattaa aaagctttaa 420
ctataaaaac agaagctatt tacatatttg ttttactca actttccaag gg 472
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<210> 219

<211> 309

<212> DNA

<213> Homo sapiens

<400> 219

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gtccgccag aagccataga cgagacgtag gtagccgtag ttggacggac gggcagggcc 60
ggcggggcag cccctccgc gcccccggcc gtccccctc atgccccgc gccaccccc 120
atgccccctg cccccggcgg cggcctcgcg tgcgaggggg ctcccttcac ctcggtgcct 180
cagttcccc agctgtaaga caggacggg gcggcccagt ggctgagagg agccggctgt 240
ggagccccgc cggccccca cctctaggt ggccccgcg cgaggaggat cgttttctaa 300
gtgcaatac 309
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<210> 220

<211> 560

<212> DNA

<213> Homo sapiens

<400> 220

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ctgtgcagca gctgaccgac agcactcaaa ttaaatgga cattttggcg caagttttac 60
agattttatt aaagtcgaag ctatttgtct tggaagatga aaatgcaat gttgatgagg 120
tggaattgaa gccagatacc ttaataaaat tatatcttg ttataaaat aagaaattaa 180
gggttaacat caatgtgcca atgaaaaccg aacagaagca ggaacaagaa accacacaca 240
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aaaacatcga ggaagaccgc aaactactga ttcaggcggc catcgtgaga atcatgaaga 300
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 ggttcaaacc tcgagtcctt gtgatcaaga aatgcattga cattctaatt gagaaagaat 420
 atttggagcg agtggatggt gaaaaggaca cctacagtta cttggcttaa cccttctgga 480
 aggtgtgac tgtgtgaccc gcagcaaata gttcatgttg gaaagaatga aaacaacttc 540
 aagttcatag gcagccagcc 560

<210> 221

<211> 280

<212> DNA

<213> Homo sapiens

<400> 221

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 gctcttcctg gatgaacca ccaatcacct ggatcagag accatcgacg ccctggcaga 120
 tgccatcaat gagtttggagg gtggtatgat gctggtcagc catgacttca gactcattca 180
 gcaggttga caggaaattt gggctgtgta gaagcagaca atcaccaagt ggcttgga 240
 catcctggct tacaaggagc acctcaagtc caagctggtg 280

<210> 222

<211> 524

<212> DNA

<213> Homo sapiens

<400> 222

tgcacagaag ttagcgtat cccactgag tctcggcaa gaaaatcttg cagagtctc 60
 caaaccaaca gctggtggca gcagatcaca aaagggtcaa gttgctcagc ggagcccagt 120
 agattcagc accatcctcc gagaaccac caggaatcc gtcccagtca ataattctcc 180
 tgagagaagt ccgactgaca gcccagaga gggcctgagg gtcaagcgag gccgactgt 240
 cccagcccc aaagctggac tggagtccaa gggcagtgag aactgtaagg tccagtgaag 300
 gcactttgtg tgcagtacc cctgggagggt gccagtcatt gaatagataa ggctgtgcct 360
 acaggacttc tcttagtca gggcatgctt tattagttag gagaaaacaa ttccttagaa 420
 gtcttaaata tattgtactc tttagatc ccatgtgtag gtattgaaaa agtttgaag 480
 cactgatcac ctgttagcat tgccattcct ctactgcaat gtaa 524

<210> 223

<211> 550

<212> DNA

<213> Homo sapiens

<400> 223

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 ccgacctgtg tgtggacagc tctcagaagc gctaccgggc cgcagtgcc ttctcacct 120
 acgtgtcgtg gagccaggaa ggcaggtcgc tgcctgtgcc ccagctggtg cccgagaccg 180
 aggcagagaa gaagcgcttt gaggaaggca aaggcggtta cctgcagatg aaggcgacga 240
 tcaggggcac gcggacgctc agccctagac tcctcctcc tgccactggt gcctcgagta 300
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 tgtgtgccg agcgccggga ggcgttgggc agaaaccctc gggaatgctt ccgagcacgc 540
 ttaggggtat 550

<210> 224

<211> 233

<212> DNA

<213> Homo sapiens

<400> 224

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gatgaatgtt ttgcaactta ttgggaagac aacaagtttt accgggcaga agttgaagcc 60
ctccattctt cgggtatgac agcagttgtt aaattcattg actacggaaa ctatgaagag 120
gtgctactga gcaatatcaa gccattcaa acagaggcat gggaggaaga aggcacctac 180
gatcaaaactc tggagttccg taggggaggt gatggccagc caagacgatc cac 233
```

<210> 225

<211> 419

<212> DNA

<213> Homo sapiens

<400> 225

```
ctgctgccac ataaggtctt tgaaggaaat cgcccaacca actctattgt gttcaccaag 60
ctcacaccat tcatgcttgg agccttggtc gccatgtatg agcacaagat ctctgttcag 120
ggcatcatct gggacatcaa cagctttgac cagtggggag tggagctggg aaagcagctg 180
gctaagaaaa tagagcctga gcttgatggc agtgctcaag tgacctctca cgacgttct 240
accaatgggc tcatcaactt catcaagcag cagcgcgagg ccagagtcca ataaactegt 300
gtcatctgc agcctctct gtgactcccc ttctcttct cgtccctct ccccgagacc 360
ggcactgcat gtctctggac accaccaga gcacctctg gttgtgggtc tggaccacg 419
```

<210> 226

<211> 265

<212> DNA

<213> Homo sapiens

<400> 226

```
atggcaaaaa tctccagccc tacagagact gagcgggtgca ttgagtcctt gattgctgtt 60
ttccagaagt atgctggaaa ggatgggtac aaccgcaatc tctcaagac ggagttccta 120
agcttcatga atacagagct ggctgccttt acaaagaacc agaaggaccc cgggtgcctt 180
gaccacatga agaaactgga tgcagcagt gatgggcagt tagattccc aaaatttctt 240
aatctgattg gtggcctagc tgtgg 265
```

<210> 227

<211> 467

<212> DNA

<213> Homo sapiens

<400> 227

```
gggaccggga ttcatctgg tgtgatagac acctctctac tatataacga gtacattgtc 60
tatgatattg ctacagtaaa tctgaagtat ctgctgaaac tgaaattcaa tttaagacc 120
tccctgtggt aattgggaga ggtagccgag tcacaccggg tggctgtggt atgaattcac 180
ccgaagcgtc tctgcaccaa ctacactggc cgctaagttg ctgatgggta gtacctgtac 240
taaaccacct cagaaaggat ttacagaaa cgtgttaaag gtttctcta acttctcaag 300
tccctgtgtt tgtgttgtgt ctgtggggag ggggtgtttt ggggtgtttt ttgtttttc 360
ttgccaggta gataaaactg acatagagaa aaggctggag agagattctg ttgcatagac 420
tagtcctatg gaaaaaacca aagcttcgtt agaattgtctg ccttact 467
```

<210> 228

<211> 277

<212> DNA

<213> Homo sapiens

<400> 228

```
aagaggggcc tgatgagact ccactcaggt gcacacatca ccaggtgcat ctgcaggcac   60
cgggctggct gcttgcagcc aggagaaggt cagcgagaag gagtgtatga gtgtgagtgt   120
gtgtgcatgg aagttagggc actgggcgtc tgactccctc cccaccaag agaggaagga   180
ccccaccca ccccaactgg cgagacagtt tactttgccg acttgccatg ttttgccaa   240
aaccaagatt ttgaaggaaa tgagtggcca gcgccag                               277
```

<210> 229

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (198)..(198)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (201)..(201)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (429)..(429)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (439)..(439)

<223> n is a, c, g, or t

<400> 229

```
gactgggcct ggtacaagat cactgactct gaggacaagg cccatcatgaa cggtccgag   60
agcagggtct tcgtgagttc ctgcagggc cggtcagagc tacacattga gaacctgaac   120
atggaggccg accccggcca gtaccggtgc aacggcacca gctccaaggc ctccgaccag   180
gccatcatca cgctccgncg ntgcgcagcc acctggccgc cctctggccc ttctgggca   240
tcgtggctga ggtgctggtg ctggtcacca tcatttcat ctacgagaag cgccggaagc   300
ccgaggacgt cctggatgat gacgacgccg gctctgcacc cctgaagagc agcgggcagc   360
accagaatga caaaggcaag aacgtccgcc agaggaactic ttctgaggc aggtggcccg   420
aggagcctnc cctgctcng cgtctgcgcc gccgcccggag tccactccca gtgcttgcaa   480
gattccaagt tctcacctct taaaga                               506
```

<210> 230

<211> 536

<212> DNA

<213> Homo sapiens

<400> 230

```
cctgtgccct ggcagttagc caagaggcgg ataagtcccc caccttagaa cagtatgcca   60
tgagagcggt tggcgacgca ctggagggtc tccccatggc cctctctgaa aacagtggca   120
tgaatccat ccagactatg accgaagtcc gagccagaca ggtgaaggag atgaaccctg   180
ctcttgcat cgactgtttg cacaagggga caaatgatat gaagcaacag catgtcatag   240
aaacctgat tggcaaaaag caacagatat ctcttgcaac acaaatggtt agaattgatt   300
```

tgaagattga tgacattcgt aagcctggag aatctgaaga atgaagacat tgagaaaact 360
 atgtagcaag atccactct gtgattaagt aaatggatgt ctctgatgc gtctacagtt 420
 atttattgtt acatcctttt ccagacactg tagatgctat aataaaaata gctgtttggt 480
 aaccatagtt tcacttggtc aaagccgtgt aatcgtgggg gtactatctc aactgc 536

<210> 231

<211> 389

<212> DNA

<213> Homo sapiens

<400> 231

ccatcgccac agaagcggtg ccaggacacc cggggcgtgg agcacattcc cgtggtgcag 60
 attgacctct ccgtccctt gaaggttcca gggctgccta tgtcagatca gtatgtgaag 120
 ctggaggagg agcggcggca ccggcagaag ctggagaagg acaagaggag gaaaaagagg 180
 aaggagaagg agaagaaggg caagcgccgc cacagctcgc tgcccacgga gagcgacgag 240
 gacatgccc ctgcccagca ggtggacatc gtcacagagg agatgcctga gaatgctctg 300
 cccagcgacg aggatgacaa agacccaac gaccctaca gggctctgga tattgacctg 360
 gataagccct tagccgacag cgagaaact 389

<210> 232

<211> 525

<212> DNA

<213> Homo sapiens

<400> 232

ctcttcacca ctgtggagac cctggagaag gaaaaccctt ggtactgccc ttctgcaag 60
 cagcaccagc tggcaaccaa gaagctggac ctgtggatgc tgccggagat tctcatcatc 120
 cacctgaac gcctttccta caccaagttc tcccgagaga agctggacac cctcgtggag 180
 ttctctatcc gggacctgga ctctctgag ttgtcatcc agccacagaa tgagtgaat 240
 ccggagctgt acaaatatga cctcatcgcg gttccaacc attatggggg catgcgtgat 300
 ggacactaca caacatttgc ctgcaacaag gacagcggcc agtggcacta ctttgatgac 360
 aacagcgtct cccctgtcaa tgagaatcag atcgagtcca aggcagccta tgcctcttc 420
 taccaacgcc aggacgtggc gcgacgcctg ctgtccccgg ccggctcctc tggcgcccca 480
 gcctccctg cctgcagctc cccaccagc tctgagttca tggat 525

<210> 233

<211> 501

<212> DNA

<213> Homo sapiens

<400> 233

gaagggggcc ttttgagcta gaagctttct attctgatcc ccaaggagtt ccatatccag 60
 aagcaaaaat aggccgctt gtatgtcaga atgtttctgc acagaaagat ggagaaaaat 120
 ctagagtaaa agtcaaagtg cgagtcaaca cccatggcat ttcaccatc tctacggcat 180
 ctatggtgga gaaagtcca actgaggaga atgaaatgtc ttctgaagct gacatggagt 240
 gtctgaatca gagaccacca gaaaaccag aactgataa aaatgtccag caagacaaca 300
 gtgaagctgg aacacagccc caggtacaaa ctgatgtca acaaacctca cagtctccc 360
 cttacactga acttacctca gaagaaaaca aaatcccaga tgtgacaaa gcaaatgaaa 420
 aaaaagtga ccagcctca gaagctaaaa agcccaaat aaaggtggtg aatgttgagc 480
 tgcctattga agccaactg g 501

<210> 234

<211> 432

<212> DNA

<213> Homo sapiens

<400> 234

```

tgctgggctg ggtcgcgtag ccaggggtgg aggcagaacg atgctgctgt ggtagccctt   60
tgcctttcat gccatgctt gattcttgca cctcagcagc tgaaggtctc agagaccagt   120
aatcagaagg catccgactg cattaagtgt gcagcgctga aaagacattt acaactaggc   180
caggggattag ccactgtggg aggggtggaca ggcaatgggt cagtggcctg gctgttggca   240
ggaactccaa gtgccaggc ctcttgggca gcttagggcc ctgcctctgt tcatgatgc   300
atgggtcatt tgtcttgggt gtcctatccc atatggagaa gaaaggggct ctaagttctg   360
gctcttcttt ctttgggggt ctctgtacct gaggaaacca ggccctgggt gactttgcag   420
atctgctcac cc                                     432

```

<210> 235

<211> 454

<212> DNA

<213> Homo sapiens

<400> 235

```

tgtagaaggt gacgtcttg gggcaggact cctccaaaat tatgtggacc gtacggagtc   60
gagaagcaca gagcctgagt tgatacaagt gaagagttag ctgcccctgg atccgctgcc   120
agtccctact gaggaaggaa acccctctct caaacactat cggggggccc caggggatgc   180
cacggtcgcc tctgagaagg aatcagtcac gtaaaccccg ggagggaact tcctgccct   240
gttgggggtg ctcttggac actggattat gaggaatgga taaatggatg agctagggct   300
ctgggggtct gctgcacac tctggggagc cagggggccc agcacctcc aggacaggag   360
atctgggatg cctggctgct ggagtacatg tttcacaag ggttactct caaaaccccc   420
agttctact catgtcccca actcaaggct agaa                                     454

```

<210> 236

<211> 475

<212> DNA

<213> Homo sapiens

<400> 236

```

gcaagaccga gagcacctgt ggaagttgat cgaaggcggg gccacatct acgtctgtgg   60
ggatgcacgg aacatggcca gggatgtgca gaacaccttc tacgacatcg tggctgagct   120
cggggccatg gagcacgcgc aggcgggtga ctacatcaag aaactgatga ccaagggccc   180
ctactccctg gacgtgtgga gctaggggcc tgcctgcccc accacccca cagactccgg   240
cctgtaatca gctctcctgg ctccctccc tagtctctg ggtgtgttt gcttggcctt   300
ggcatgggcg caggcccagt gacaaagact cctctgggcc tgggtgcat cctctcagc   360
ccccaggcca ggtgaggtcc accggcccct ggagcacag cccagggcct gcatgggggc   420
accgggctcc atgcctctgg agcctctggc cctcgggtgc tgcacagaag ggctc     475

```

<210> 237

<211> 531

<212> DNA

<213> Homo sapiens

<400> 237

```

gtcaggctt ggctcaaaa cactttattg atgtaggagc tgggtgcata gatgaagatt   60
atagaggaaa tgttggtgtt gtactgttta atttggcaa agaaaagttt gaagtcaaaa   120
aaggatgacg aattgcacag ctcatcttgc aacggatttt ttatccagaa atagaagaag   180
ttcaagcctt ggatgacacc gaaaggggtt caggagggtt tggttccact ggaaagaatt   240
aaaatttatg ccaagaacag aaaacaagaa gtcatacctt ttcttaaaa aaaaaaaaaa   300

```


aagttttgc ttcaagtgtt ttggtgttt gcacttctgt aaacttacta gctttacctt 360
 ctaaaagtac tgcattttt acitttttt atgatcaagg aaaagatcat taaaaaaaaa 420
 cacaaagaag tttttcttg tgtttggatc aaaaagaaac ttgtttttc cgcaattgaa 480
 ggttgatgt aaatctgctt tgtggtgacc tgatgtaaac agtgcttct t 531

<210> 238

<211> 543

<212> DNA

<213> Homo sapiens

<400> 238

ggatcaggag aacgtacacc cggatgtgat gctggtacaa cccagagtag aatttattct 60
 gctttcatt gaccacattg ctggagatga ggatcacaca gatggagtag tagcttgtgc 120
 tgctggacta ataggggact tatgtacagc atttgggaag gatgtactga aattagtaga 180
 agctaggcca atgatccatg aattgttaac tgaagggcgg agatcgaaga ctaacaaagc 240
 aaaaaccctt gctacatggg caacaaaaga actgaggaaa ctgaagaacc aagcttgatc 300
 tgttaccatt gggatgataa cctgaggacc cccactggaa atctccatc tttgaaaaa 360
 cctggaagtg aggagtgtgc acggatgtg aatgtttggg aatgagagga tgagtgagtg 420
 aggttgaaa acacaccaca ttgaaaatcc tgccacagca gcagccgcag ccgccaacag 480
 cagcgtgtt agtgagctaa gtaagcactg acttcgtaga aaaccataac atcgcccatc 540
 ttg 543

<210> 239

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (173)..(174)

<223> n is a, c, g, or t

<400> 239

gaggaaagac gctcttagg tttgttttg tttttttt ttggtttg tttttgtt 60
 tttttttac tctagggaaa acactgacga atggtcagag ctctatcct gatctttca 120
 tcaaggcgcc ttcttaata atatggttca actgtgaatg tagaagtggg ggnnaggggg 180
 gagaaaaaga aaactctggc gtttagaggat ataaaaaat ataagtacaa ttgttacaaa 240
 taacgcagac ttcaaaaaca aaaaaatcac aacccaaaca aaccaaatt taaatgatca 300
 gaattggcag cacaaagaaa acgcctctc ctgacttgta ttgtggcagt ctgaacgccc 360
 ccagaaaatt gtgcaaaga gtttagaaaa ataatatac aataaaagta aacacataca 420
 cacaaaacag caaacttcag gtaactattt tggattgcaa 460

<210> 240

<211> 498

<212> DNA

<213> Homo sapiens

<400> 240

gttgaactca tgtttcagtt cgcgaaacatt gactccttac gaaagtcact tcattctaac 60
 tagatgcgcc cacttcgggt cattatttcg ttgcatgat gtattgcttc ttcacgttt 120
 gttttattg agcacggagt agaattccag ggctgccttg acttctccc tgcagtctcc 180
 ctcccagtga ctttcttcc ctttcacatg aggatctgcc gtcatgttg ctttctcctt 240
 tgcctcttg gacttgaggg cattgtgaaa agctttgctg tgatttaaaa atgccagcaa 300

ttttaatcta gcagtgttga agctgggaat ttttggcgc aatccatgta gcagtgaccc 360
 aggcttggga gccagaaaca agtgtgacct gggattttat ttaacacaac tgttgccaaa 420
 gagttggctt tgtttatttg gtttggcgg ggagaggagt ggtatttgat gctttctgtg 480
 gacaatgtaa ccctaaac 498

<210> 241

<211> 378

<212> DNA

<213> Homo sapiens

<400> 241

ggtcaaggct aaagccggag caggctctgc caccctctcc atggcgatg ccggcgcccc 60
 ctttctctc tccctgttg atgcaatgaa tggaaaggaa ggtgtgttg aatgttcctt 120
 cgttaagtca caggaaacgg aatgtaccta cttctccaca ccgctgctgc ttgggaaaaa 180
 gggcatcgag aagaacctgg gcatcggcaa agtctcctct ttgaggaga agatgatctc 240
 ggatgccatc ccgagctga aggcctccat caagaagggg gaagatttcg tgaagacctt 300
 gaagtgagcc gctgtgacgg gtggccagt tcttaattt atgaaggcat catgtcactg 360
 caaagccgtt gcagataa 378

<210> 242

<211> 428

<212> DNA

<213> Homo sapiens

<400> 242

tgttagcgt aggttttcc caagggtcgc tagaaactcg tcttcgctt gcccccttc 60
 tggtctcag cgccgtcgcc actcgggaga ggctgggtga ggcccggtg aggactgacc 120
 ctggattcct cgaactgcc attgtatca ttactcgtc ctttgaaat ggctgtatca 180
 ttttttga ctaatgtgaa ttgttctca gaaacgcttc tttccatcc tagtgagaag 240
 ctggccctgc aggtggtggc agcaatggtg ttgtaagatt tctcccga gtttttctc 300
 ctcattgatt tgaatgaaat gccataaca cgtccacttt caacgtgtg ttacgcgga 360
 gcactttcga ggctggccg ggttgggcct actctcacc tgggcctatc ttctgaactc 420
 gctaggtt 428

<210> 243

<211> 534

<212> DNA

<213> Homo sapiens

<400> 243

gaagataacc ggctcattca cttctccca gaagacgcgt ggtagcgagt aggcacaggc 60
 gtgcacctgc tccgaatta ctcaccgaga cacacgggct gagcagacgg cccctgtgat 120
 ggagacaaag agctctctg accatactc tcttaacacc cgtggcctc tcttttcg 180
 cctccctccc taacctactg acccaccttt tgattttagc gcacctgtga ttgataggcc 240
 ttccaaagag tccacgctg gcatcaccct ccccgaggac ggagatgagg agtagtcagc 300
 gtgatgcaa aacgcgtctt cttaatcaa ttctaattct gaatgttcg tgtgggctta 360
 ataccatgct tattaatata tagcctcgat gatgagagag ttacaaagaa caaaactcca 420
 gacacaaacc tccaaattt tcagcagaag cactctgcgt cgctgagctg aggtcggtc 480
 tgcgatccat acgtggccgc acccacacag cacgtgctgt gacgatggct gaac 534

<210> 244

<211> 532

<212> DNA

<213> Homo sapiens

<400> 244

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cagaaagtct cagcccagga tggggcttct tcaacagggc cctgcccctc ctgaagcctc 60
agtccttcac ctgccaggt gccgtttctc ttccgtgaag gccactgccc aggtcccag 120
tgcgccccct agtggccata gcctggftaa agttcccag tgcctccttg tgcatagacc 180
ttcttctccc accccttctt gccctgggt ccccgccat ccagcggggc tgccagagaa 240
ccccagacct gcccttacag tagtgtagcg cccctccct cttcggctg gtgtagaata 300
gccagtagtg tagtgcggtg tgcttttacg tgatggcggg tgggcagcgg gcggcgggct 360
ccgcgcagcc gtctgtcctt gatctgcccg cggcgggccc tgttgtgtt tgtgtgtgt 420
ccacgcgcta aggcgacccc ctccccgta ctgacttctc ctataagcgc ttctcttcgc 480
atagtcaagt agtcccacc ccacctctt cctgtgtctc acgcaagttt ta 532
```

<210> 245

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (363)..(363)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (418)..(418)

<223> n is a, c, g, or t

<400> 245

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tgccatctg caacctcaag gacgagctgc tgtttccag ctgggaggt ctgttctcag 60
gtctgaggg tccgtgaag cccggggcac gcattcttc cttgacggc aaggacgtcc 120
tgaggacccc cacctgcccc cagaagagcg tgtggcatgg ctgggacccc aacgggcgca 180
ggctgaccga gagctactgt gagacgtggc ggacggaggc tccctcgcc acgggcccagg 240
cctctcgtc gctggggggc aggcctcctg ggacagagtc cgcgagctgc catcacgct 300
acatcgtgct ctgcatttag aacagcttca tgactgcctc caagtagcca ccgcctggat 360
gcngatggc ggagaggacc ggcggtcctg aggaagcccc caccgtgggc agggagcngc 420
cggccagccc ctggccccag gacctggctg ccatacttc ctgtatagt cacgttt 477
```

<210> 246

<211> 445

<212> DNA

<213> Homo sapiens

<400> 246

```
gtcactaacc tgtctcagt tggccttgc cagccttgtg tttctgtaa ccctgtttg 60
tggtacgaga taatgagtc tttttctc tcacataata tgcatttgc ctctaggac 120
agtgtaatc atttatgtga agtaaagaca tgcgagactg tggcctgca aatagcatcc 180
gtcaatctgt gttactgca tagggaggc tctgcatagc acctgtata gcggtgtcat 240
gttgatcgc ttttgtact gttcatctgt ccttgacagt ggctgtcctc ttgactact 300
tgttgattg ttggtattg ggacatttta aaggctgagt tttttgaa tgcattgtt 360
atgtcataga cgtagtctt gcaccttga attaaactgc cttaactcct tttgtgtat 420
aagcaaaact ccatggactc tgtcc 445
```

<210> 247

<211> 182

<212> DNA

<213> Homo sapiens

<400> 247

```

tctgcagcct acgcatgaat aggttggcag gtgtgggctg gcgggtggac tacaccctga   60
gtccagcct gctgcaatcc gtggaagagc ccatggtgca cctgcggctg gaggtggcag   120
ctgccccagg gaccccagcc cagcctgttg ccatgtccct ctacgcagac aagttccagg   180
tc                                     182

```

<210> 248

<211> 403

<212> DNA

<213> Homo sapiens

<400> 248

```

ttattcttct aattaacagc tcctaggaaa atgtagactt ttgctttatg atattctatc   60
tgtagtatga ggcatggaat agttttgtat cgggaatttc tcagagctga gtaaaatgaa  120
ggaaaagcat gttatgtgtt ttaaggaaa atgtgcacac atatacatgt aggagtgttt  180
atctttctct tacaatctgt ttagacatc ttgcttatg aaacctgtac atatgtgtgt  240
gtgggtatgt gtttatttcc agtgagggtc gcaggcttcc tagaggtgtg ctatacatg  300
cgtctgtcgt tgtgctttt tctgtttta gaccaatttt ttacagttct ttgtaagca  360
ttgtctatc tggatgatga ttaacatata gcctttgtt tct                        403

```

<210> 249

<211> 487

<212> DNA

<213> Homo sapiens

<400> 249

```

gccgtctcaa agtttcttag ctgactttgg ctttcacatt tgttctttcc agagctaact   60
gataagagtg gaggaggaat gccttctcct aagagtcagt tgaagaaaag acaagagagt  120
cacatcttag cttttgcaca aggcattcgt ggtcaggaat aggttaggga atgttcactt  180
ctgattttcc aacagttgct ccttctctga agagatcttg attcctttgg gaagacaaga  240
attttctta ataacaagg tccttttatg agttattcct tcttcagtt catctcactg  300
gagcacagcc aagatggaca tgttatgga cagtgcctta gatgtgaaaa cagatagaac  360
tggtttgtgg gacaggggca gcttgctcag gagagggaat aacgcaggtc cctttcttg  420
gaaggcttgt actatggcca tgacagtgcac attgcctca ccatgatccc tctccaaagt  480
ggttgc                                     487

```

<210> 250

<211> 471

<212> DNA

<213> Homo sapiens

<400> 250

```

tttctatca gctcttctgc tatgaagtag taaaaggcag tctataatta actgacagac   60
ctaactgaag cacagagaat acatcagact tatgcacca agacacaga acttggaatt  120
tatcaaatct gatgacttct ctaaaaggag ctttggaac ttcaaattca gctataggat  180
agtaccaatg aacacatcca gctgatccca aaagctgttt tcaggtataa ggacaaggag  240
aggagacaag tgacgacagc cattccccct tgcagctatc tactgtagt acagccattt  300
cttggttgat ggggttgaag tcatcagagg ttgagaat tacactggcc tttgttttc  360
tggaaatgcc gaccatggag atgctttaga gtcttctcaa atagcttaga tgttgtaatg  420
aggtagctt tgctcataa aacaggggcc ctcaagaagt ctcttaaat t                471

```

<210> 251
 <211> 529
 <212> DNA
 <213> Homo sapiens
 <400> 251

```
cctctacctg ggttcgggtc aggagctcca tctgggaact aacagctgct aacctgacca 60
gccgctcagg acaggacctt ggggctacac tctgcattg ctgcaatact gctccccag 120
cctctccctt gcccctcaac ctgccttagc tgcactctct tacctacagc tggacagtac 180
ctgtctgttt cctgtctcc ttccagttac atctgtccat gtctggactc ggctggccgt 240
tccctccagc cccttgctgg ttatcttact ctgagtgtga tgcagtcaga ggcacctgcg 300
ggtagccca ggggcccag ccttgattt ggctgcgga ggagcttagg atcctcgttt 360
tctgggtttt ggtgatgttg gaggagtacc cccagccca ccgccccgat tccttttgc 420
ttctggttg gagctccgga ccaggacctt cgtctggtc agtttttaa taattatta 480
gcagtgtaac ttttaacct gcgtgacatc tacaagcgc ccaataaag 529
```

<210> 252
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (160)..(160)
 <223> n is a, c, g, or t
 <400> 252

```
gggtcattgt ttaagatctg gctggtgga cctagcctgc tggaactggc atgggagaag 60
ctgcttgcgg ccttccctaa ccttgcaaac ctctccgaa cacaacttct gcaccttga 120
ctcacacagg gactcatcga acgcttgaaa tgaggatttn tggactgttc attgatactg 180
gaaatgttaa tttaaagaga ctcttttatt tatgggcagt gtagaatgtg ctacaaagag 240
gattggttac cctgatcaag gccttattta gaaaatacat cagatgcctt tctgtaaatt 300
ggttttcag tttatggaca tctcacttcc ccacgtgctt ccttcttgc ttctgttct 360
cctgacctat tacatgcaca tgtactcaca tactccctct tccttctga tggagttaa 419
```

<210> 253
 <211> 358
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (134)..(135)
 <223> n is a, c, g, or t
 <400> 253

```
ttgcttttcc tctaactctg caagagctat ggctcttcta tttccaatc acacagcttg 60
gcagttagga aaggttgaat gatcctctaa gactgtgttg gtcttcgtat tctgtaaaac 120
ccatttttt tttnngtggc cttacagatg tttagaaagt ggcacagggt actgaattgt 180
ctacctgcca gcattctgat atagcacaaa aagctatitt cctttatttt ttgtattatt 240
ttttatttt ctggcattga gctctagggt ggatgagggt ttatggctct ctgatcataa 300
gtccattctt aaaaactggt cactgttagc tgaaattgct ttggttcccc aaatgcct 358
```

<210> 254
 <211> 516
 <212> DNA
 <213> Homo sapiens
 <400> 254

```

ggccttccc ttctaaggtc attagattca gccaaaagcg acctctctc tagtccggtg   60
ttacgaacag aagttctgag ttgtgctaca aaagtagttc catctttttg gtgtaatttt  120
cacgttttta attgaaaaa aaaaaaaaaa acaacttttt ataagttttt taagggccct   180
gcttagtcag tgtacagggt ggagtcagag gcagttttca gaaaaaaaac aaaaaacaaa  240
aaacaatttc accaagcggg agtaattgtt gttttactag ttatacatft agaataataa   300
ggaggcatca gaaaacacac tctctaaagc cacttccttg tgcacagagt ctgcacaggg  360
agagcacagg catctccctg gaaaagcacc tgccaatgac gaatttcag gaagaaccta  420
ggcaagaaag gaagcctctt tctgagacac agtctctgag aggtgagcct agctttgctc  480
ttctacagg gtatgcttgg gccatacaca atgctc                               516

```

<210> 255
 <211> 514
 <212> DNA
 <213> Homo sapiens
 <400> 255

```

gaccagtct tcggagagca cctgttgag tctgatcttt tcccagcgtc tacttcctg   60
agtccctct acctcggcc accctcctc ctgcgggcac ccagctggtt tgacactgga  120
ctctcagaga tgcgcctgga gaaggacagg ttctctgtca acctggatgt gaagcacttc  180
tccccagagg aactcaaagt taagggtgtg ggagatgtga ttgaggtgca tggaaaacat  240
gaagagcgcc aggatgaaca tggtttcac tccagggagt tccacaggaa ataccggatc  300
ccagctgatg tagacctct caccattact tcctccctgt catctgatgg ggtcctcact  360
gtgaatggac caaggaaaca ggtctctggc cctgagcgca ccattccat caccctgaa  420
aagaagcctg ctgtcacgc agcccccaag aaaaagatgc ctttcttga attgcatttt  480
ttaaacaag aaagttccc caccagtga tgaa                               514

```

<210> 256
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (267)..(267)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (409)..(409)
 <223> n is a, c, g, or t
 <400> 256

```

tcggacactg gccttgggaa caatgttcga gagaacactt gccccttgac tgtaggagcc   60
agaaggggac ccaggtgtgc atagctctct gtagacattt ttacccaaac ctgttggtaa  120
agtgccatc tgggtctcaa gagagcctgg ggggtctaaca gggagcccggt ctgcctcacc  180
tggccacagc ctccacacca gatctccaca ttgtcttgat ccagaccagc tctgtgatca  240
gaaggaaatt ggggtccagt taggagnag ctggtcctgg gcctggcagg caagagtgtg  300

```

ggcacccttt cctggccctt ctccactctc cctcaagcct gtgctcaggt tgccttgaat 360
 gtggactctg gaagagccag gggcccagaa tggcggggga ggcttctgng tggcactcat 420
 ggaacaccgt cctcttgcca gccataggcc ctgcctccag tgtcagggaa tggaggctgg 480
 gctgcgagag tgttgctgcc 500

<210> 257

<211> 500

<212> DNA

<213> Homo sapiens

<400> 257

atcgaccgt ttccagaagc tgcgttgcca acgtcacatc ccaaaatagt gttgacatcc 60
 ctgcctgcgc tggegggtccc acccccgact ccaccaaag cggcacctcc cgcgtaggtc 120
 aatgggctgg agctgtcaga gccgcggagc tggctgtacc tagaagagat ggtcaactcc 180
 ttgtcaaca cagcgcagca gctgaagacg ctgtttgagc aagccaagca tggcagcacc 240
 taccgagaag ctgccacaaa ccaggccaag atccacgtg acgcagagcg gaaggagcag 300
 tcctgcgtta actgcggccg ggaggctatg agcgagtga ccggttgcca caaggtcaac 360
 tactgtcca acttctgcca acgcaaggac tggaggatc accagcacat atcgggccag 420
 tcagcagctg tcaccgtcca ggcagacgaa gtccacgtgg ctgaaagcgt gatggagaag 480
 gtgaccgtgt gaggtccat 500

<210> 258

<211> 516

<212> DNA

<213> Homo sapiens

<400> 258

agatgcctgt ttgtatttg gtggaagata gatgttcata ttgaagcagt cacatttga 60
 ctgtagtcca ataaaagaaa aatgaagtat tctgtagcct atatttttca tagagctcat 120
 gagcatttac tgtacttgc tggctctgcc aagatcattt attccgctgc attgccaag 180
 tgtcttcata ccaaattaaa ggtggtttta atatgttt catggaagt gtttataaaa 240
 ttcaaaggta ttcatcttag gtgaaaagtc ttatttatta aagtggttg aataaagtag 300
 atcaaaaact ccagagatct taatggctat ataggaaagaa atactactca ccataattta 360
 aataaagaat aaaaatacat gtattttatg gtggcaaatg tttggtagaa ctgtaattag 420
 aaaaatacaa gtattttgc gtgatggta cactagaagc ccagacttta cgactacaca 480
 atatattcat gtatctaaac tgtacttga cccct 516

<210> 259

<211> 375

<212> DNA

<213> Homo sapiens

<400> 259

ttttaccttg gatgctgact tctaaatgaa ctgaagatgt gcccttactt ggctgatttt 60
 tttttccat ctcataagaa aaatcagctg aagtgttacc aactagccac accatgaatt 120
 gtccgtaatg ttcattaaca gcacttttaa aactgtgtag ctacctcaca accagtcctg 180
 tctgtttata gtgctggtag taccacctt tggcagaagg cctggctggc tgtgacttac 240
 catagcagtg acaatggcag tcttgcttt aaagtgaggg gtgaccttt agtgagctta 300
 gcacagcggg attaaacagt cctttaacca gcacagccag ttaaaagatg cagcctcact 360
 gttcaacgc agatt 375

<210> 260

<211> 427

<212> DNA

<213> Homo sapiens

<400> 260

```
gtacgagacc tgttccagat gaagcttttt gtggatacag atgcggacac ccggctctca   60
cgcagagtat taaggacat cagcgagaga ggcagggatc ttgagcagat ttatctcag   120
tacattacgt tcgtcaagcc tgcctttgag gaattctgct tgccaacaaa gaagtatgct   180
gatgtgatca tcctagagg tgcagataat ctggtggcca tcaacctcat cgtgcagcac   240
atccaggaca tectgaatgg agggccctcc aaacggcaga ccaatggctg tctcaacggc   300
tacacccctt cagcaagag gcaggcatcg gagtccagca gcaggccgca ttgaccgctc   360
tccatcggac ccagcccct atctccaaga gacagaggag gggtcaggag gcactgtctca   420
tctgtac                                     427
```

<210> 261

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (435)..(435)

<223> n is a, c, g, or t

<400> 261

```
gaagatgtcg gcagggctgg gcttcagcct ggaaggaggg aagggtccc tacacggaga   60
caagcctctc accattaaca ggatttcaa aggagcagcc tcagaacaaa gtgagacagt   120
ccagcctgga gatgaaatct tgcagctggg tggcactgcc atgcagggcc tcacacggtt   180
tgaagcctgg aacatcatca aggcaactgc tgatggacct gtcacgattg tcacagggag   240
aaaaagcctc cagtccaagg aaaccacagc tgctggagac tcctaggcag gacatgctga   300
agccaaagcc aataacacac agctaacaca cagctcccat aaccgtgat tctcagggtc   360
tctgtgccg cccacccag atgggggaaa gcacaggtgg gcttccagt ggctgctgcc   420
caggcccaga ccttntagga cgccaccag caaaaggttg ttc                                     463
```

<210> 262

<211> 531

<212> DNA

<213> Homo sapiens

<400> 262

```
ttggaatggg cagctcatct ctgtcccact tggcatcagc tggcgctatg caaagtcatg   60
caaaggctgg gaccacctga gatcattcac tcatacatct ggccgttgat gttggctggg   120
aactcacctg gggctgctgg cctgaatgct tataggtggc ctctcctgt ggcctgggct   180
cctcacaaca tgggtgtctgg attcccagga tgagcatccc aggatcgcaa gagccacgta   240
gaagctgcac ctgttttata cctttgcctt ggaagttgca tggcatcacc tccaccatac   300
tccatcagtt agagctgaca caaacctgcc tgggtttaag gggagaggaa atattgctgg   360
ggtcatttat gaaaaataca gttgtcaca tgaaacattt gcaaaattgt ttttggttgg   420
attggagaag taatcctagg gaagggtggg ggagccagta aatagaggag tacaggtgaa   480
gcaccaagct caaagcgtgg acaggtgtgc cgacagaagg aaccagcgtg t                                     531
```

<210> 263

<211> 528

<212> DNA

<213> Homo sapiens

<400> 263

gtatcgatat ggttcctttt cegtcaccct ggacattgtc cagggattg aaagtgccga 60
gatcctgcag gctgtgccgt ccggtgaggg ggaatgcatt gagctgactg tgcctgccca 120
aggcgggctg cccaaggaag cctgcatgga gatctcatcg ccaggggtgcc agccccctgc 180
ccagcggctg tgccagcctg tgctaccag ccagcctgc cagctgggtc tgcaccagat 240
actgaagggt ggctcgggga catactgcct caatgtgtct ctggctgata ccaacagcct 300
ggcagtggtc agcaccagc ttatcatgcc tggtaagaa gcagggggcc ttgggcaggt 360
tccgtgatc gtggcatct tgcctgtgt gatggctgtg gtcttgcac ctctgatata 420
taggcgcaga cttatgaagc aagacttctc cgtaccccag ttgccacata gcagcagtca 480
ctggctgcgt ctaccccga tctctgtc ttgtccatt ggtgagaa 528

<210> 264

<211> 529

<212> DNA

<213> Homo sapiens

<400> 264

gaatggtgca tacaaggcca tccccgtgc ccaggacctg aacgcgcctt ctgattggga 60
cagccgtggg aaggacagtt atgaaacgag tcagctggat gaccagagtg ctgaaacca 120
cagccacaag cagtcagat tatataagcg gaaagctaag gatgagagca atgagcattc 180
cgtgtgatt gatagtcagg aactttcaa agtcagccgt gaattccaca gccatgaatt 240
tcacagccat gaagatatgc tggttgtaga ccccaaaagt aaggaagaag ataaacacct 300
gaaatttctg atttctcatg aattagatag tgcattctt gaggtcaatt aaaaggagaa 360
aaaatacaat ttctacttt gcatttagtc aaaagaaaa atgctttata gcaaaatgaa 420
agagaacatg aaatgcttct ttctcagttt attggttgaa tgtgtatcta ttgagtctg 480
gaaataactg atgtgttga taattagttt agttgtggc ttcatggaa 529

<210> 265

<211> 372

<212> DNA

<213> Homo sapiens

<400> 265

cctgcggagg tggggggcat gcagctccgc ttgcccggc tctccagca cgccacggcc 60
cccacccggg gctccgcgcg cgccgcgggc tacgacctgt acagtgccta tgattacaca 120
ataccaccta tggagaaagc tgttgtgaaa acggacattc agatagcgt ccttctggg 180
tgttatggaa gattggctcc acggtcaggc ttggctgcaa aacatttat tgatgtagga 240
gctggtgtca tagatgaaga ttatagagga aatgttggtg ttgtactgtt taatttggc 300
aaagaaaagt ttgaagtcaa aaaaggtgat cgaattgcac agctcatttg cgaacggatt 360
tttatccag aa 372

<210> 266

<211> 409

<212> DNA

<213> Homo sapiens

<400> 266

agtcaagtga ccagcctctg actgtgcctg tatctccaa attctccact cgattccact 60
gctaaactca gctgtgagct gcggataccg cccggcaatg ggacctgctc ttaacctcaa 120
acctaggacc gtcttgcttt gtcattgggc atggagagaa ccaatttctc cagactttta 180
cctacccgtg cctgagaaaag catacttgac aactgtggac tccagttttg ttgagaattg 240
ttttcttaca ttactaaggc taataatgag atgtaactca tgaatgtctc gattagactc 300
catgtagtta ctctctttaa accatcagcc ggccttttat atgggtcttc actctgacta 360

gaatttagtc tctgtgtcag cacagtgtaa tctctattgc tattgcccc 409

<210> 267

<211> 523

<212> DNA

<213> Homo sapiens

<400> 267

ggtatcttca taaaatcggt gcactgagaa tgcagctgga cccatgtgaa gatacctcac 60
 tccagcccac ttctaggaa caatggaaga agaaaggact gaaccagggt atttttgta 120
 ggtttctat gtgactccaa gagggaaatgg tcaagttgtt tcatgagttt gcatgggccc 180
 ttggaaaaac aggaaggag caatgaagat ccaagcaaaa ctttacttcc agcgttggct 240
 tggaggacaa ataagaaatg aaacatccta tgaaatactt tatagcacat ggcagatttg 300
 caactagtaa aatgctggtg aaatgctgtt ggtaaagcac atggtccaaa tctagaagat 360
 gcagttcaaa aacaagacag actcgagttg ttagggctga ggaaccaatc aaggtagaac 420
 aaagaaaatg ttggggtaaa agtgttgctg attgtcaaca caaactggct taataatatt 480
 aataagaacc tgtcttatta agactggctt tagaaccgta ggt 523

<210> 268

<211> 161

<212> DNA

<213> Homo sapiens

<400> 268

gtgatgccca tatgatcagg acagcttttc cactttactc ggtttcctac aagcaagtag 60
 gaaatacagt gaatttacc taaatgtcc aatctgtatt tatgtacctt gtcagtgttt 120
 tgctgttggg ttctaaaac aatctgatca ataatctta t 161

<210> 269

<211> 445

<212> DNA

<213> Homo sapiens

<400> 269

caacaagacg gacctggctg ataagaggca gataaccatc gagggaggggg agcagcgcg 60
 caaagaactg agcgtcatgt tcattgagac cagtgcgaag actggctaca acgtgaagca 120
 gcttttcga cgtgtggcgt cggtctacc cggaatggag aatgtccagg agaaaagcaa 180
 agaagggatg attgacatca agctggacaa acccaggag ccccgggcca gcgagggcgg 240
 ctgctcctgc taatgcagag ccgacctgtg gcttccatg acactccttg cttgttgtgt 300
 tgcttctat tggctagctt cctaaggggg gaggggaaccg agttatcaag atgggaggat 360
 tttcttttc tctctgtctt taggagtagg gtgggatggg gagggaggct gggcatcagg 420
 gatcacatca ctctaacgg ctgtt 445

<210> 270

<211> 503

<212> DNA

<213> Homo sapiens

<400> 270

gacattgcct gtatgatcgg gtaccgacct tgcccctgga tgaaatggtg ctggtccttc 60
 ttaccccgcg tggctgcat gggcatcttc atcttcaacg ttgtgtacta cgagccgctg 120
 gtctacaaca acacctacgt gtaccgctgg tggggtgagg ccatgggctg ggccttcgcc 180
 ctgtcctcca tgctgtgctg gccgctgcac ctctgggct gctcctcag ggcaaagggc 240
 accatggctg agcgctggca gcacctgacc cagcccatct ggggcctcca ccacttgag 300

taccgagctc aggacgcaga tgtcaggggc ctgaccaccc tgaccccagt gtccgagagc 360
 agcaaggctc tctgggtgga gagtgtcatg tgacaactca gtcacatca ccagctcacc 420
 tctggtagcc atagcagccc ctgcttcagc cccaccgcac cctccaggg ggcctgcctt 480
 tccctgacac ttttggggtc tgc 503

<210> 271

<211> 508

<212> DNA

<213> Homo sapiens

<400> 271

tcaactccat agtgaagtct gatgtggaca tccgcaaaga cctgtacacc aacacagtgc 60
 tgtctggcgg caccaccatg taccctggca tcgccacag gatgcagaag gagatcactg 120
 ccttggcgcc tagcattatg aagatcaaga tcattgtctc tccaagcgc aagtactccg 180
 tgtgggtcgg tggctccatc ctggcctcgc tgtccacctt ccagcagatg tggatcagca 240
 agcaggagta tgatgagta ggcctcccca ttgtccaccg caaatgtctc taggtggact 300
 ctgactagt tgcgttacac cctttcttga caaaacaaaa cttctcagaa aacaacatga 360
 gattggcgtg gctttattg ttttctgtt tcattttttg tttgtttt tattggcttg 420
 actcaggatt tgaaaaccgg aacggcggaag gtgatagtag tcggttggag cgagcttccc 480
 ccaaagttct acaatgtggc caaggact 508

<210> 272

<211> 502

<212> DNA

<213> Homo sapiens

<400> 272

tcactgtcag tcgacacttc catgtccagg ttttcccatc atatgattec cggctctctt 60
 ggteccca caactggcat cctcatcca gctattgtaa cacctcaggt caaacaggaa 120
 catcccaaca ctgacagtga cctaatgcac gtgtgtcttg cttttctct ccccatccc 180
 ttctcatc cttcaacccc tccccctaac caccaccacc accacctttt aggaagcctc 240
 agcatgaaca gagaaggag caggagccaa aaagacctca cattaagaag cctctgaatg 300
 cttttatgtt atacatgaaa gaaatgagag cgaatgtcgt tctgagtggt actctaaaag 360
 aaagtgcagc tatcaaccag attcttggca gaagggtgga tgccctctcc cgtgaagagc 420
 aggctaaata ttatgaatta gcacggaaaag aaagacagct acatatgcag ctttatccag 480
 gctgggtctg aagagacaat ta 502

<210> 273

<211> 552

<212> DNA

<213> Homo sapiens

<400> 273

aagccagcta cagatgcatt catattgtga aaaccagat atagtgtgt gtggaacaa 60
 gagtgtctg gaggaccaga gtagtgtaa agagaaatat ggaatcccct actttgaaac 120
 tagtgcctgc aatgggacaa acataagcca agcaattgag atgcttctgg acctgataat 180
 gaagcgaatg gaacggtgtg tggacaagtc ctggattcct gaaggagtgg tgcgatcaaa 240
 tggctatgcc tctacggatc agttaagtga agaaaaggag aaaggggcat gtggctgttg 300
 agaagtcaag taagcgacat agtagttcag gtggcccatg cctgggatct tctctatgat 360
 tgatacatgg cacagtga gattaatggg cattgtgtac aaattgctc tcaccatccc 420
 cattagacct acgaataaag catccgggtc taaaattaat ttgttcagc tttgtaaata 480
 tttcttaag attcagcctg agagtagga gaaatattc agagccaaaa gtgcctata 540
 caaccttagc ct 552

<210> 274
 <211> 417
 <212> DNA
 <213> Homo sapiens
 <400> 274

```

ggagccccgt cataggaagt gaggtcttcc tgcccaacag caaccacgtg gccagtggcg   60
ccggggagggc agaggaacgc gttgtggtga tcagcagctc ggaagactca gatgccgaaa   120
actcgtcctc ccgagagctg gatgacagca gcagtgagtc cagtgcctc cagctggaag   180
gccccagcac cctcagggtc ctggacgaga accttgctga cccccaagca gaagacagac   240
ctctggtttt ctttgacctc aagattgaca atgaaagtgg gttctectgg ggctaccccc   300
acccctttct aatttagtct ctgagtccca aaaagaagtg caggcagagc catctgccag   360
gccaggaga gctctgagct ctggccaaca actgcagcca ggctgggcag agcactc   417

```

<210> 275
 <211> 510
 <212> DNA
 <213> Homo sapiens
 <400> 275

```

gttctgcccc atggtgcagt tccccggcga cgtgaggagg caggccctcc tgcagctgtg   60
tctgtcctc tgccaccgtt tcccgtgat ccggaagacc acggccagcc aggtgtacga   120
gacattgtc acctacagt acgtcgtggg cgcggatgtg ctggacgagg tggtagctgt   180
gtcagtgac actcgtggg acgcggagct tgcagtgtg agagagcagc gcaaccgtct   240
gtgtgacct ctgggcgtac ccaggcccca gctggtgccc cagcctgggt cctgctgaag   300
ccagtcttg agccatacc tcaccttgc ctggtgagga tgtctgttc ctgagggagg   360
ccggtgtgga aagcctcgca cagtgggtcc tccagctgtt gaagggtagc gctggccctt   420
ggaggtggc actagctgac agcttttct ctctgcacct gcgctctggt gacttggggt   480
ggacgcctct gccttcaact gaacacaaat                               510

```

<210> 276
 <211> 551
 <212> DNA
 <213> Homo sapiens
 <400> 276

```

ggatggggct tcttcaacag ggccccctgc ctctgaagc ctacgtcctt caccttgcca   60
ggtgccgttt ctctccgtg aaggccactg cccaggtccc cagtgcgccc ctagtggcc   120
atagcctggt taaagtccc cagtgcctcc ttgtgcatag accttctct cccacccct   180
tctgccccct ggtccccggc catccagcgg ggctgccaga gaacccaga cctgccctta   240
cagtagtgta gcgccccct cctctttcgg ctggtgtaga atagccagta gtgtagtgcg   300
gtgtgctttt acgtgatggc ggggtggcag cgggcggcgg gctccgcgca gccgtctgtc   360
cttgatctgc ccgcgggcgc ccgtgtgtg tttgtgctg tgtccacgcg ctaaggcgac   420
ccctccccc gtactgactt ctctataag cgcttctct cgcatagtca ctagctccc   480
acccacccct ctctctgtg ctacgcaag tttatactc taatattat atggctttt   540
ttctcgaca a                               551

```

<210> 277
 <211> 533
 <212> DNA
 <213> Homo sapiens
 <400> 277

ccttgactgg ctaccaggg gaggagctgg aggaagagga ggaaagtcaa gggggcgtga 60
 agcttggcct cggggacttc atctctaca gtgtgctggt gggcaaggcg gctgccacgg 120
 gcagcgggga ctggaatacc acgtggcct gcttcgtggc catcctcatt ggcttgtgtc 180
 tgacctctct gctgcttgt gtgtcaaga aggcgtgcc cgcctcccc atctccatca 240
 cgttcgggct catctttac ttccacgg acaggaagca cagcagggtt atccagatga 300
 actgagaagg tcagattagg gcggggagaa gagcatccgg catgagggtt gagatgcgca 360
 aagagtgtgc tcgggagtgg cccctggcac ctgggtgctc tggctggaga ggaaaaacca 420
 gttccctacg aggagtgtc ccaatgctt gtccatgatg tccttgttat ttattgcct 480
 ttagaaactg agtcctgttc ttgttacggc agtcacactg ctgggaagtg gct 533

<210> 278

<211> 238

<212> DNA

<213> Homo sapiens

<400> 278

ctgggctccg aggtgtacag gatgtgcgg gagccggccg agcccgtggc cgcggagccc 60
 aagcagtcag gctcctccg ctactgcag ggcatgctag aggccggcga gggcggggca 120
 ccatgtcaa ggcacgggac aagctctacc atcccagtg ctcatgtgc agtgactgcg 180
 gcctgaacct caagcagcgt ggttacttct ttctggacga gcggctctac tgtgagag 238

<210> 279

<211> 491

<212> DNA

<213> Homo sapiens

<400> 279

gctcttctct gaagcgcagc aagctcggcc ggtacaacga ggaggagcgg gctcagcagg 60
 aggccgaggc cgcacagcgc ctggccgagg agaaggccca ggccagctcc atcccgtgg 120
 gcagccgctg tgagggtcgg gcggcgggac aatcccctcg ccggggcacc gtcattgatg 180
 taggtctcac agattcaag cctggctact ggattggtgt ccgctatgat gagccactgg 240
 ggaaaaatga tggcagtgtg aatgggaaac gctacttca atgccaggcc aagtatggcg 300
 cctttgtcaa gccagcagtc gtgacgggtg gggacttccc ggaggaggac tacgggttgg 360
 acgagatatg acacctaagg aattcccctg ctacagctcc tagctcagcc actgactgcc 420
 cctctgtgt gtgccatgg ccttttctc ctgaccccat ttaatttta ttcattttt 480
 cctttgcat t 491

<210> 280

<211> 268

<212> DNA

<213> Homo sapiens

<400> 280

agcagatcat gaagacaggg gcccttttgc ttcaggggat gattgccgcc gtggacacag 60
 actcccccg agaggcttt ttccagtggt cagctgacat gttttctgac ggcaacttca 120
 actggggccg ggttgcgcc cttttctact ttgccagcaa actggtgctc aaggccctgt 180
 gcaccaagt gccggaactg atcagaacca tcatgggctg gacattggac ttcctccggg 240
 agcggctgtt gggctggatc caagacca 268

<210> 281

<211> 261

<212> DNA

<213> Homo sapiens

<400> 281

```
gctctatttc caggcatgtg atgcccccg ctctccagat tccccagcac tctgtgcgt   60
gtaactccac tcaattctcc actcatcctt ccttgtgaag caggatcggt gaagttttaa   120
gtatgggcaa aaatctggaa aacttaggat ccctctgaca ccccaggatt aggggacaca   180
gcagtggcta gggcatcagc cacagaactg agcgggaaat gccacttcta ttgctgtaa   240
agaaatcctg gctttgggc a                                     261
```

<210> 282

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (43)..(43)

<223> n is a, c, g, or t

<400> 282

```
tcaaaggact gagactgacc tcctctgggtg aactggcct agngcctgac actctcctaa   60
gaggttctct ccaagcccc aaatagctcc aggcgccctc ggccgcccat catggttaat   120
tctgtccaac aaacacacac gggtagattg ctggcctgtt gtaggtgga gggacacaga   180
tgaccgacct ggtcactcct cctgccaaca ttcagtctgg tatgtgaggc gtgcgtgaag   240
caagaactcc tggagctaca gggacaggga gccatcattc ctgcctggga atcctggaag   300
acttctctga ggagtcagcg ttcaatcttg acctgaaga tgggaaggat gttctttta   360
cgtaccaatt ct                                     372
```

<210> 283

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (335)..(336)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (338)..(338)

<223> n is a, c, g, or t

<400> 283

```
tccccgctag cttggggcga gcagagctgc atccagtga actaaagccg ttccaggatt   60
atcaaaaact gagcagcaac cttgggggac ctggatcacc acggactccc ccaactggaa   120
ggctcttctc tggcctcaat tcccgtctca aggccacgcc ttccacctac agtggagtct   180
tccgcaccca gcgcgtcgac cttaccagc aggcctcccc accagatgcc ctgcgctgga   240
tacctaagcc ttgggagcgg acagggccgc cactctgaga agggccctcc cgacgggcag   300
aggagcctgg gtcccagagg gacaaggagc ctggnntngc cccaccccc ctgagggagt   360
tcctctgccc cctaccccc ggggcttcta tatagatt                                     398
```

<210> 284

<211> 478

<212> DNA

<213> Homo sapiens

<400> 284

```
tgtagattta gttgacgct ccccaaagt catgagacac atgctaaaat tacaaattaa   60
aattttgggt cagactttgc cataatgata gactcaattt agctctctga actagttggt  120
aatttttttt ttttaattcc cactttggct gtgtacatca aatgaaatga gaagtgtgta  180
tgctgaccaa accacaagaa actttcttta agttgtgtta aagaggaaag acctagaatc  240
caagcgtgtt acatgaaaat tgtaacagag cagctgcttc caccttcag atatagatgt  300
tggaaccaca gcagaagtta tagagcgaca acttatatac acacctagaa tgtaagttaa  360
acaaatatac ggctccaga gaccctttt ctccagccat attacatcag gctagaagta  420
attaatgttg atttattca tctacaagca gttggtccct aagtgaagg ctctgctt   478
```

<210> 285

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (299)..(299)

<223> n is a, c, g, or t

<400> 285

```
gtctgcctct ccaggattgt atgtttcaag ccttgctctg tgttccttg tctgacgctc   60
tgtgtattgc tctttgaatc gagtttgag gaagagtga gttgtatgag tggcggcatg  120
ttgtagtgct cggacttctt gtttcaagtt ttctggggcc tcgctaattg aatgtggaaa  180
gtagcaccac ttgacggcta caagtgccga ctctgaatt ttccatggt gttctgactt  240
caagggtctg cagccaggga gaatggggcc aggggaagca aagacctctt ccctctgcn  300
ttctgtccc acttaactga cctactgga ggctac                               336
```

<210> 286

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (81)..(81)

<223> n is a, c, g, or t

<400> 286

```
tcttgacatc ctacttctt ctaagggggg agggaaagg gggaganttt ttatatatat   60
atacatatat atatatcaag nttaaatta ttgatagtc atctggatta ccaaatacac  120
tctgcagccc tggcgaggc tagtaggctg caacctggt cccaccctt aacctctgc  180
tccccctcaa gccaaatag cagcccacaa gaaggccctg cgggcccccc cattgccag  240
cactgtctca tagaaggctc tg                               262
```

<210> 287

<211> 388

<212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (70)..(70)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (72)..(78)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (80)..(80)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, or t

<400> 287

```

tttcccttgg ttctttatc atagagacct gcctatttat tctttggcgc catctggagt   60
actacttgn annnnnnnan gnccacggat tctcaagatt ccttatttgc ctcgagaacc  120
ttgtttaaaa gcagaagact gcaagattcc ttgcctcag aaaccaatct agattttaga  180
agtgggctgg ctatagtga ccaacatgat ttagaccagc ttcaggctga tgcaatcaac  240
gcttttgag aatcactaca aaagaaactt ctggacattg aaggattata ttcaaaagtt  300
cgatctcgat atagtttcat acaggctctt gtcagacgta tccgtggcct cttgaggata  360
tcaaggaaact gagagcccggt gcttatgc                               388

```

<210> 288

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (300)..(300)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (303)..(303)

<223> n is a, c, g, or t

<400> 288

```

gagctcactg tgggatgggg ttgacctctg ccgcctgcct gggtatctgg gcctggccat   60
ggctgtgttc ttcatgtgtt gattttattt gaccctgga gtggtgggtc tcattttcc   120
catctcgctt gagagcggct gagggctgcc tcaactgcaa tcttccccac agcgtcagtg   180
aaagtctgcc ttgtctcaga atgaccaggg gccagccagt gtctgaccaa ggtaagggg   240
caggtgcaga ggtggcaggg atggctccga agccagaaat gccttaaact gcaacgtccn   300
gtnccttccc cacccttcac ccatccccac cccagcccc agccagtcct tctaggagc   360
aggaccgat gaagcggggc gcggtggggc tgggtgccgt gttactaact ctagtatgtt   420
tctgtgtcaa tcgtgtgtg                               438

```


<210> 289
 <211> 509
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (440)..(440)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (448)..(448)
 <223> n is a, c, g, or t
 <400> 289

gtcttccta cctcaggcag gaagggcagg aaggagagcc tgcctcatgg ggtgggtag 60
 ggctgactag aagggccagt cctgcctggc caggcagatc tctgccccat gcctgtccag 120
 cctgggcagc caggctgccca aggccagagt ggccctggcca ggagctcttc aggcctccct 180
 ctctctctg ctccaccctt ggctgtctc atccccaggg gtcccagcca ccccgggctc 240
 tctgctgtac atatgttga ctagtttta ttcttgtga agatgatata ctattttgt 300
 taagcgtgtc tgatttatg tctgaggagc tctgggcttg cagtgcgctg gcacgtggag 360
 agctggtgcc cggagattgg acggcctgat gctccctccc ctgccctggt ccagggaagc 420
 tggccgaggg tcttggtctn ctgaggggna tctgccctc ccccaacccc caccacac 480
 ttgtccagc tctttgaaat agtctgtgt 509

<210> 290
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (286)..(286)
 <223> n is a, c, g, or t
 <400> 290

ttagcaacac tcatagttt gccattacc agtagacact agtggaaacca tctaactgga 60
 acttctctc tcttccact tatttctca aacttggtgc ttacactag acacatgcaa 120
 atgtatgtt taaacacacc aaaacagatc atgccaaatg agttgcctgt caaaggctgg 180
 agggcaggag gagggcctgg gttgggttc ttctccca gcctttggat ggtgccttgg 240
 gccccttagc ccagcgcca gggcctccca gctgaggcca cagganaagc actttttat 300
 gatgtactaa aagccacagt atgtggcaac tgcaaaagga tcaggaattt agggatgat 360
 ctcggtcacg tctccggggc gctgagggga aaggaagcgg gcatgattgt agacaatgag 420
 ggggttctct tgatgtaatg aa 442

<210> 291
 <211> 467
 <212> DNA
 <213> Homo sapiens
 <400> 291

gagacactag ttttgccaa ctaagattt tacgttaatt ttacatagt attgacact 60

catgcaaaat aatgtgaaaa catctagatt tagtagttta ttctgcgcct tttgttaaaa 120
 ctgaagattt tggaaaatgg ttgtcactgc tctccagcc tatgaatatt tttgtgaaat 180
 ggaaccatgg atttatgtct ggatcatcca tacagaacca acaattttat tcaaaaacaa 240
 tgtgttcac aaagtaattg ctcacattgt gcagtactat gttgtacaga ccacgtgaaa 300
 gggaaatgctg gtctagctgg cgtggtatgt ttataggcga attcagcag aaggaagcca 360
 aaatagtttt ttcttttga aagttttta aaaattatt catgggtctt tttttaatt 420
 aatatgtgtg cattgttaca atgtatgtg gatgtcttt gacccta 467

<210> 292

<211> 356

<212> DNA

<213> Homo sapiens

<400> 292

ttagagccat catcatccca ggcagggata tctttgagaa atgactcagt tcagccccag 60
 gccctgtga ctctgcttaa agcacacatt tctgtgact cttgtacctg gggcagcagg 120
 ataatcacca acacactctt aacgagaaac aacacaccaa gcacagtga gctgtcctag 180
 gcaacactcg cgggtctcagg ctgcgggtggg cgtctgtcct gcatgtggcc cagaccacc 240
 tgacccccgg gcctgcctgc ctggccctgc atgtgcacg ctactgtat ttgtgcagat 300
 cctggccagt acaaagtcgt tgctcttgc ttatcttctc ttacagagtc tcctc 356

<210> 293

<211> 203

<212> DNA

<213> Homo sapiens

<400> 293

gtctccctcc ctttatagaa tgtaaccaa agagtgcct cctccctct cagcctctc 60
 tttagctagc ctcccatct catcacaacg catgtctgtg accttggtg atcatttaca 120
 gtgccacag gaacctgtg tttgcacac agcaaaacaa acaatgtta gctttattta 180
 tggatttga tgctgtaaat gga 203

<210> 294

<211> 487

<212> DNA

<213> Homo sapiens

<400> 294

aagaaccagt gtcaatccgc agaccctctg tgaagccagg ccggccgggc cgagccagca 60
 gccctctcc ctgactcag aggcgcgcgc gggagggtg gccccgccga ggcttcagg 120
 gccccctcc caccaaaggg ttacctcac acttgaatgt acaaccacc cactgtcgg 180
 gaaggcctcc gtctcggcc cctgcctctt gtgtgtgtc tgtcccgag ccctgcagg 240
 tcccccccg ccccccaact caagagttag agcaggtggc tgcaggcctt gggcccgag 300
 ggaaggccac tgccggccac ttggggcaga cacagacacc tcaaggatct gtcacggaag 360
 gcgtctttt tctttagc taacgttagg cctgagtagc tcccccat cttgtagac 420
 gctccagtc ctactactgt gacggcattt ccatccctcc cctgccccgg aaggacctt 480
 gcaggga 487

<210> 295

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (153)..(153)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (351)..(351)

<223> n is a, c, g, or t

<400> 295

```
ctggccgggg atttgcgaac caaagcgacc attgagctca aggccctcag gctgctgaac   60
ttccagaggc agctgcgcca ggaggtggtg gtgtgcatgc ggagggacac agcgctggag   120
acagccctca atgctaaggc ctacaagcgc agnaagcgcc agtccttgcg cgaggcccgc   180
atcactgaga agctggagaa gcagcagaag atcgagcagg agcgcaagcg ccggcagaag   240
caccaggaat acctcaatag cattctccag catgccaagg atttcaagga atatcacaga   300
tccgtcacag gcaaaatcca gaagctgacc aaggcagtgg ccacgtacca ngccaacacg   360
gagcgggagc agaagaaaga gaacgagcgg atcgagaagg agcgcatgcg gaggtcatg   420
gtgaagatg aggaggggta ccgcaagctc atcgaccaga agaaggacaa gcgcctggcc   480
tacctctgc agcagacaga cgagtacgtg gctaacctca cggagctg                   528
```

<210> 296

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (121)..(121)

<223> n is a, c, g, or t

<400> 296

```
cagggcaact cccagggatg tggtgacatg caggggtcaa gtgttcttgg ttccaggcac   60
ctccccgctc acggggagct cagaggtcca tgccgaggag accaggcagg acctcccgag   120
nctgcgcccc ggccggccca tgcgtttgt gatcccaagt gactctgtgg gaagggtggg   180
gacgaggcgt cgggagggta tacagggagc cctccccgtg catggctgcc cccccgttca   240
ttttctccac cacagccgct tgcacgtata gatactgtgg tcccccttct tttaatatat   300
aaattatgta tggtaagtg gagtgtattg ttaggtccc gtattaatg cctctgactg   360
cctttgaagc gcagccctct ttggcccgca gccccctgag cctggctgtt gtgtgttatt   420
tatgtctct ttgtctgc                   438
```

<210> 297

<211> 497

<212> DNA

<213> Homo sapiens

<400> 297

```
aagctcccat tttgaacca ctagtttgcg gttgacttga gtactctggt gacttctgc   60
gtcaagcgtt ctcaagctgt gagaatgtgc gcagctccag gcaggtttc tctcgagag   120
ttaagtcttc ccttgaaggc agggaagcag gatggataca catatatcac acgcataaaa   180
caccaggtgc gggagcagcc cagactcaag gctgactaaa ctggaggctg aataccgtgg   240
aggtccacat gcagcttccc tggagggcag gccggaggcg ctcccgcgcc tgggcttgag   300
gatgtgcac cccgtgggct tccaggcctg cccagatgat gccttcaggc ctctgtccct   360
ggcggccatc ctacggccga tttgaccag caatgataga ctcttctaa ccctttcaa   420
```

ataaattttt cagtgggaca gaaaggagag ttaaaaaaca ttttttaaa ggtggttaaca 480
tctgaccac aaaggga 497

<210> 298
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (73)..(73)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t
<400> 298

cctcatccgc tacatgagct ctgggcctgt ggtggccatg gtctgggaag ggtacaatgt 60
cgtcgcgcc tenaggcca tgattggaca caccgactcg gctgaggctg ccccaggaac 120
cataaggggt gacttcagcg tccacatcag caggaatgtc atccagcca gcgactccgt 180
ggagggggcc cagcgggaga tccagctgtg gtccagagc agtgagctgg tgagctgggc 240
agangggggc cagcacagca gcatccacc agcctgaggc tcaagctgcc cttaccacc 300
catccccac gcaggaccaa ctacctcgt cagcaagaac ccaagccac atccaaacct 360
gcctgtccca aaccacttac ttccctgtc acctgtccc caccagcc cagaggagt 420
tgagccacca acttcagtgc cttctgtac cccaagccag cacaagattg gaccaatcct 480
ttttgacca aagtgcgga caaccttgt ggtggggggg ggtcttcaca ttatcataac 540
ctctctcta aaggga 557

<210> 299
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (60)..(61)
<223> n is a, c, g, or t
<400> 299

atagggtttt ctgggagag gatgtgctgg attaggaaag gtgacatgac acaggcagan 60
nagagtggca cccaccacag aatacagtgt gtgtattac gaggagccag cagttgagcc 120
taaggtcctt ctacctacct ggtattggca ttgaggtcg gaaacctct actgccccat 180
aagccaggaa aagtgaagaa agaacacagt tctttaaga actggcagca aggcttgagg 240
ccttatgtat gtactgagt cagcaaggta catgatgctg tctgcttca aaaggacttt 300
tctctctag ctgactgact cctccttag ttcaaggaa agctgagaca gacctctgct 360
gagtagctct gtgatgaca agccttggtt taactgaggt gatcctcagg ttgtgaggtt 420
tattagtccc caaggcaaac acaaatatt 449

<210> 300
<211> 311
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (125)..(126)

<223> n is a, c, g, or t

<400> 300

```
atcaagtcca actgaaacat cagaacaaat aagagagaaa taagaataga atgaatgacc 60
ccaaaatagg gttttcttgg gcgaggatgt gctggattag gaaaggtgac atgacacagg 120
cagannagag tggcaccac cacagaatac agtgtgtgtt attacgagga gccagcagtt 180
gagcctaagg tcctctacc tacctggtat tggcatttga ggctcgaaac cctctactgc 240
cccataagcc aggaaaagtg aaaagagaac acagttcctt taagaactgg cagcaaggct 300
tgaggcctta t                                     311
```

<210> 301

<211> 395

<212> DNA

<213> Homo sapiens

<400> 301

```
gctctggtgc tagatgccac tgtagccaga tctccaacag tgccttggac catggactca 60
tactcaactg agtaagaagg ggctggtgcc cagtcggggt ggctgagctg gtccttaata 120
ggttggttct tggcttgcct ttctcatgc cctccccact gctcctgcca cctttagata 180
agtttctcta gctaattttg tggccaatgt aaaattcgtc atcaacctaa caaacacaac 240
cttctcagca gcatttctcc cctgtgatgg aaataaagtg tttagggcag tgggaggaga 300
aaattctcca ggtgaatggg gaagggtctg ttccagcctc tcctactcc catccattt 360
ccaccaactg gggaactgtg actatctatc tcccc                                     395
```

<210> 302

<211> 517

<212> DNA

<213> Homo sapiens

<400> 302

```
tatgttatgt gtgtgactcc cttgtgtgta tctgtgccag cctcagcctc cgagttgctt 60
ttccctctgg cctgactct cactgactca ccgatgtgat gtgcaggccc acttcttacc 120
ccagatagcc tcgggcgctg cctgtagtca tgcagacagc tgtacagtag ccgccaagac 180
tgctgacagc tggagacggt tctggttca actacggtat atgatatcg gaagtattct 240
agacagatcc tcgggtgggt ttctagcta catgtttgta ttgcacagat cccacactgc 300
catcctatag tgtgtcttc ctgtgtgtc cggggcttct gggcagctgg gcctgcccgg 360
ggaagtcctt gcaggtggga ggccatacag agaccactg tgtgccactg agcgtccac 420
tgctgctggg caactggagg actgcagggg gcgccaggtg actctctct tttatcac 480
agcagctcct gtgtgacct tcaagttacg ttttga                                     517
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<210> 303

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (51)..(51)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (392)..(392)

<223> n is a, c, g, or t

<400> 303

```
tgtagtgtg taaacctgcc tcacaaaata catggtaata actttcttt naaaaaaaa 60
aaaaaagaca gcctttacac catttctagt ggcacactat ttggcaatg ttatgcacca 120
cttcaatttc cccattgtga cccctatcac ttcatttgat atccctttt gaccaccca 180
tctccttcac atatgggcat gtccatagat tgacaaagaa agtttacact ttgaataaa 240
gatgcaaagt atgcaaaaac attaatctg atgcgaaaaa ataaaaata aaagagaaac 300
aaggcagagg aagaaggtgt ttaagctctc ctgcacctgt tggaatgggtg gtaacagaa 360
tgatttgaga tgggatctgt ggggagggga gnaaaaaaaa aaacaacaaa atttggtgct 420
taaaaaaag taaaataaaa aaagacatct ttaaatcaa tccctggttg tagacaagtt 480
ctccaaaacc agtacctggc accactccaa caaacaacg 520
```

<210> 304

<211> 329

<212> DNA

<213> Homo sapiens

<400> 304

```
gctggctcg ttttccaag gagccttgg tgagttcaat tatctgtaa atatccagcg 60
cttcactga aagatagtcg aaattggta ggatgccacc tcaagaactg taactgagag 120
ctcagaagtg agcaaaggag cttaatgcta aggtcaaaag gagagtgaag ggttgagaac 180
aattgccacg aacggtaatg ttacatgta ggagggtctg tttctttt atataagtg 240
gtcttagata tattttaaag agaaaataag cttctgatt tactgtttg gtatttaaag 300
cacagttgt tttctgtca cctatagag 329
```

<210> 305

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (481)..(481)

<223> n is a, c, g, or t

<400> 305

```
tacattttc cacgagctgg tgcagacagc tctgccatca ggcagctgtg tggacacctt 60
gttaaaggac ttgtcaaaa tgtacaccac acttacagcc ctgtcagat attatctcca 120
ggtgtgtcag agctccggag gaattccaaa aaatatggaa aagctggtga agctgtctgg 180
ttctcatctg accccctgt gttattcttt catttcttac gtacagaata agagtaagag 240
cctgaactat acgggagaga aaaaggagaa acctgctgcc gttgccacag ccatggccag 300
agttcttcgg gaaaccaagc caatccctaa cctcatctt gccatagaac agtatgaaa 360
atttctcacc cacttttcta agaagtccaa ggtgaacctg atgcagcaca tgaagtcag 420
cacctcacga gacttcaaga tcaaggaaa catcctagac atggttcttc gagaggatgg 480
ngaagatgaa aatgaaggag gcactgcatc agagcatggg g 521
```

<210> 306

<211> 496

<212> DNA

<213> Homo sapiens

<400> 306

```

ctttctgcct gtactggatc tgttattttc agggaaacag gccccagggc cccctgagc   60
ctcaccctaa gcccttaggc ctctgagagt gctgttgggt tctatttatt tatttatttg  120
ttcctttgtt cctaccctg gccccagtg tcttcctgc tgagtaccag gagaggtcct  180
gccccatcct ctctctgaag ccagggccct tccattccat ttagcctttg gatcatcctg  240
gctggggagaa gtgggaccga gccaccagc cccactatcc ccaagcagcc ctacagccgg  300
gatggggaggc acgtggcctc tctttatcc gtctatttat ttgtaagtg tattcgtgtg  360
gaggaggttg ttgctttatt ttttaaggc tctggagtgt tgtgtatgtt ttctttcac  420
atcccagcct ccatggggca ctctaagaa gagaggggat ttcttggaag aggagagagg  480
aatcccctag agcagg                                     496

```

<210> 307

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (158)..(158)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (216)..(217)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (231)..(231)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (250)..(250)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (261)..(261)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (291)..(291)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (297)..(297)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (341)..(341)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (352)..(352)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (365)..(365)

<223> n is a, c, g, or t

<400> 307

```
gcggggccaca gacgtcggaa gaaactcccg tatttgcagc tggaactgca gcccacggcg   60
ccccggttt cctccccgcc ctgtccctct ctggtcaaac aacatactaa agaggcgagg   120
caatgactgt tggccagttc tcaccgggga aaaaccnac tgtaggatg gcatgaacat   180
ttccttagat cgtggtcagc tccgaggaat gtggcncca ggctcttga ngagccatgg   240
gctgcaccn ggccgtaggc ntagtgtaac tcgcatcca ttgcagtgcc ngttcnttg   300
actgtgttc tgtctcttag attaacctg ctgaggtcc nacatagctc cntggacctg   360
tgtcntagta catactgaag cgatggtcag agtgtgtaga gtgaagttgc tgtgccaca   420
ttgttgaaac tcgctgacc cgtagatata ttgtgcaacg ttctctgtt attccctga   480
ggtggtaact tcgtatgtc agt                                     503
```

<210> 308

<211> 434

<212> DNA

<213> Homo sapiens

<400> 308

```
tgagagctgt ctaggtctgt atcccagatt gttgcttaac gacatctgac agatgcattg   60
tttttgaac tcagcttaag acaccaattg tggcaactgg aaactatta cctgctgcat   120
tggatcaact atggaagtg gagcaggggt gggcggaggt cacctaacca atcaatggaa   180
ggcaactcac acctgtcca agcctcagct ttgagaaaca aacacgttta taagaaaaaa   240
tatatagcta ttattacaga agtgaatatg ttgtgctctc ttactgctct tggatgcattg   300
acagtttctg tatctcaacc ctattcatct ttatgaaaaa gcattctgaa gatctatcct   360
cagcactgct gagtgtgcag tcacacttc ctaccaaccc ccttcttacc atctctagct   420
gccatttg   gggg                                     434
```

<210> 309

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (486)..(486)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (547)..(547)

<223> n is a, c, g, or t

<400> 309

```
aacaggeccc tataggaag cagttccatg aaaatgatta attctttcca aaagacttaa   60
aatTTTTcc tatttcaatt ttcctttcaa aaaaggaaat acattcatgt agttcaaaac   120
ttaagaaaac aaaagtctgt tcagcaaaag actcccactc cgnTccccca aacgctgagc   180
ccccccccc atccctggta gcaagaagtg ttccaattt taaggtaag aaacaaagtc   240
cctggatttg tgtagggat gtcttctga gagtgggtg tgtccgtt gaccctggcg   300
gttgacctcg gccactagg atcatgccgc cctctccagg gaggagggcc tccccatcac   360
cctgtacagt ggcaccccag ccctggcact gcccgcctt gtcagcgta ctttcccat   420
ggcactctga cgtagtgat gtttggttc tgaagtact ggctgtttac cctgccggga   480
tgtaancccc tccagggcag gggcttgtct cgtgttcagt gctgcatccc agctgctggg   540
cacggtnctt ggtccatggc gttcaataaa ta                               572
```

<210> 310

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (73)..(73)

<223> n is a, c, g, or t

<400> 310

```
ttttgatgt gcgtgctgtc tgctctatgg agcctctgca gactcgttct cgtgaccag   60
tggcataccg ttnggtgtct gatgtgtgcc cagatcgttc tgccacttgc actgtgcttg   120
ctcctaagca aaagggaaaa ggagcgcgcg tgatagaaga aaagcactgg gagaactaac   180
agaggagaaa ggtgaaacac acacacattc ttaaggcaat aaaactaggg ggtgtatatt   240
atcttctggg gcattgtctt ttctggaaaa tatgtagct cgccaaccgc atctgtcat   300
ctgatattca aacacacagt attcgtgaat aagttgattc tgtccccac gtggactctg   360
tgctaccca ttgtctcatt gccagtgtg tccaagggcc cccgttgga cccacggctc   420
tcgtccctct gctccgtgtg tctcatgcca gcagcacgtc gccatccgtc accagaatta   480
gtcctcacag cctaggacca gttttgtatc aaactcgtct gatgtttga tgccatttgt   540
cttttgtaa                               549
```

<210> 311

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (37)..(37)

<223> n is a, c, g, or t

<400> 311

```
gtcatatgag ggtgtccctg tccagctttc tggcacntga gtctgtgtg gagagttacc   60
tctcttcca gggactgtgc tgttggaac ttgggcaag tcacttacct ctttgcct   120
caatttctgt ataatttc taagctacct cactgaggtg gtatgaagat tctaattgt   180
atgtagcgtg ttgtcaatc ctccagtga aagcactatc tagatcatat ttggatcac   240
attagccaaa tgcagtaaat ggccaaatta gatgtgtgct gaagacaatc agtcaactggg   300
tctatattaa acagcaacca gagcaacaaa tggcaacaa ttctatatt caagtttct   360
tgcatatttt ttggtgcaa aaccatttat aaacttttt ttctaacact agtgtctaca   420
```

gcagcattca aaaaaattct gttacctttt ctgtattagg att 463

<210> 312

<211> 238

<212> DNA

<213> Homo sapiens

<400> 312

tgggatctca gatcctttgt cactgcctat agacttgtag ctgctgtctc tctttgtccc 60
 tgcagagaat cagtcctgg aactgcatgt tcttgcgact ctggggactt catcttaact 120
 tctcgtgcc ccagccatgt tttaacccat ggcatccctc ccccaattag ttccctgtca 180
 tctcgtcaa ccttctctgt aagtgcctgg taagcttgcc ctgcttaag aactcaaa 238

<210> 313

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (61)..(61)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (68)..(68)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (117)..(117)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (148)..(148)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (173)..(173)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (218)..(218)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (231)..(231)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (275)..(275)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (293)..(293)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (305)..(305)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (318)..(318)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (323)..(323)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (435)..(435)
 <223> n is a, c, g, or t
 <400> 313

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gcagtgagcc aagacagtgc cagtnactc cagcctcggg gacagcgcaa ggctccgtct   60
naanaatnaa aaaaaaaaaa aaaaaaaaaa ggccggggcgc agtgggtcaa gcctgtngtc   120
ccagcacttt gggagggtga ggcggggcnga tcacctgagg tcaggagttt tngatcagc   180
cttggaaca cggtgaaacc ccatctctac taanaatnca aaattagcca ngcatgctgg   240
cacatgcctg taatcccagc tactcgggag gctgnggtac gagaatcgct tgnacctggg   300
aggcngagga tgcagtgngc cngatcacg ccattgcact ccagcctggg ggacaagagt   360
gaatctgtgt ctcacaaaaa aaaaaaagaa aaagaaagat gcttaacaaa gggtaccata   420
agccacaaat tcatnaccac ttatcctcc agttcaagt agaatatatt cataacctca   480
ataaagttct ccctgct

```

497

<210> 314
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (431)..(431)

<223> n is a, c, g, or t

<400> 314

```
gcagcagatc atgagtgacc cagccatgcg ccttaccctg gaacagatgc agaaggaccc 60
ccaggcactc agcgaacact taaagaatcc tgtaatagca cagaagatcc agaagctgat 120
ggatgtgggt ctgattgcaa ttgggtgatg acttgttcat ccccccttcc ctgcgccctc 180
atgtggaaag aggagctggg accgcggcga gcagcacgga gcggaaggga gagcagggga 240
gagaaggcct catctctcta tatttataca taaccccgga gaagacacag agactcgtac 300
ctgcgtgtt tgtgccgccg ctgcctctgg gccctcccag cacacgcatg gtctcttcac 360
cgctgccctc gagttccatg tctcttccc ctgccctag ttgctgtctc ggctgtctc 420
ccatagtgg nttttttt tatttggggc agtgggcatg ttatggggag gggagggggg 480
tcttcagcc tcaggtccca gctgtctcac gtgtttatt ctgcgtcccc ttccaata 540
aaacaagcca gttgggcgtg gtt                                     563
```

<210> 315

<211> 524

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (29)..(29)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (39)..(39)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (41)..(41)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (45)..(45)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (47)..(47)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (55)..(55)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (187)..(187)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (373)..(373)

<223> n is a, c, g, or t

<400> 315

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aacagcacct ttctcattga gcttctctena ctgacctcng ncccncttg ggaatnctc 60
ttctgaccga accctgatgt tcagtggcag agacagccca tagccagaac tgtgggtaga 120
ccagggttgg ggtgtgcggt ttgggacagc ccaaacccca gccgctgtgt caaggcctag 180
gacgccttgc tgccatcaaa aggggggtcc aggtttccat cagtggccta aagaaggac 240
ttctgtgtgt actgaggagt gcggaattaa agagatttga ctccctttag tattgggggc 300
agtccttcc ccagacactg tggccttga agtggaaact gaaagctgca tacctgggaa 360
agaactttt agnaataggc aatggccttc agtggagag ggagggtggt aggtgtgccc 420
agtacttga tgtcatctg tccacaacag cttttgttt ttttaaaaa gctaaaatgg 480
aatggattt tatcataaag gatgacatg ttttctcta caat 524
```

<210> 316

<211> 559

<212> DNA

<213> Homo sapiens

<400> 316

```
ggtgtgcttc gtgtgtagt tatcgttagt tcctcttccc gagatggggc cgccgagaga 60
ccccagcgc tttgaaaagc aaggtttgtg ctgcgcttcc agtccgaaa agcagatgtt 120
taagcccttg gactgagggt gggatcgag ctccgaagac ggagaggagg gaaatggggc 180
ccttccct ctattgcatc ccctgccc actccttccc cgcaccacg tgcctagat 240
tcattggcaga aatgaccaa atcctgtgta ttgttttat atatttaata actgtttta 300
atgaaagtt tagtaaaaa aatacaaac aaaaagatta aattgctatt gctgtagtaa 360
gagaagctct ttgtatctga acatagtgt atttgaaatt tgtggtttt taattattt 420
aaaattgggg ggagggcctg ggaaggatt aacaccgata tattgttacc gctgaaaatg 480
aactttatga acctttcca agttgatcta tccagtacg tggcctggtg ggcgtttct 540
ctgtactta tgtgtttt 559
```

<210> 317

<211> 504

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (44)..(44)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (94)..(94)

<223> n is a, c, g, or t

<400> 317

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gtgcctcagg agtattctt tacaccagct gctgttaaaa tgncaatga actctagtc 60
cangaatac agaagtgtc ttattaccag ttncctact tgtggccgcc ttgcaaaga 120
tccatttct aatttaagtc cccaacctct gaatttgggt ttaagttac ctagtactg 180
actactctt ttataaaaa gaccttatac ttaatgatca ttccaaagg agaccactcc 240
ttaacttta ctgcaaaccc aacaagatga gaccttaaa ccagacaga tgtaacaaag 300
```

gatttttgtt gtctaagtc caaagtatta tatagaaagt tcttgcttt atgggtaaac 360
 ttattacett aatatgttct gtggtttgct gtaaccaag attctccat taaaatgcc 420
 acagaccgac cctcaaggca gatccgaaag cctagtagt agttgcactg gggtgtttg 480
 acaagctacc acagctctta agta 504

<210> 318

<211> 568

<212> DNA

<213> Homo sapiens

<400> 318

acaggcgggtg tgagcatcca tgtgtggtct tggctaaac cagctcttga acaggttaaa 60
 gcaaacagca ataacaaaac aaaaactact gatgctgagc gtttgatcc tagtaatatt 120
 tcaaatattg tcttctgca tatgttctat ccatatttga ttccaatata cattattaag 180
 ctttctggg tactattttg ctggggctct tgcgtgaagg tggtaacctgt ctcagatcc 240
 ttaaaagaga gaggcttttt tcatccaaag ctgtagtgtt gggaactggg gtgggagagg 300
 cacttttgg aattctgaaa gaatcatac tgtgtatata catactgagt ggggaaggat 360
 ggggggtggc aggggttgag ggaggtggga acaaacagt agtatgggaa caggcagta 420
 cctcagagtgt gggaggtcac ctgggtccgt cgtcttcctt ctgtatggtg ttgggtttat 480
 gtacacacta taacacttcc tgtgtgagtt catgtacctg tctgtgagtg ctttgggtga 540
 ttgacctca gtacactcca agggcatt 568

<210> 319

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (36)..(36)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (62)..(66)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (402)..(402)

<223> n is a, c, g, or t

<400> 319

ttaaagtact tctctagtc tgaagtttt ttttncctt acataaatat tgatatattc 60
 tnnnnnctac tcaaagtgcc aaaggctaca gttttaatg acttaacaaa ttgtaccaca 120
 ttgttaagga catataatga tagacactag aactcagacc tctgcatgta tatttgataa 180
 catgtctttt gtaaaacaaa aattacaaaa aaatttgttt acattccact ggtaccttaa 240
 tttaaataa atcagactaa aaggtggtat ctcctcttag tgttctattt atcttatttg 300
 ctaatgggag cacttctcc ttgttaggc tgtgctttac tgataaacc aagtattgaa 360
 taaagagagt taattatctt tttaaagtaa ataaaattat gnaaatatat atagtatata 420
 taaagtactg tgtttaaaaa aatgttatgc aatgttttcc aaactgataa agtttgtaaa 480
 gtgctataaa tgtattttgt taagtacaga taaaagctat tgtgtgagta tattgtgcta 540
 aaa 543

<210> 320
 <211> 258
 <212> DNA
 <213> Homo sapiens
 <400> 320

gagagacgct ccattgtgaa taaagagctc ataccagctc ctaagcccta ttaagaagag 60
 gcctggctct ctaatgcctt gttccattt cagttgttct ttgagagaca gaatgatgta 120
 ctaaccattc gtgattatta agataggggtt gggtcagggc ttagggaggg ggcagaaata 180
 ttgggtagat aaaaaaaatc tgatcattcc tcagtgtctac ccatttctgt cctgtgtggg 240
 ctgcttagct agacagca 258

<210> 321
 <211> 263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (92)..(92)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (190)..(190)
 <223> n is a, c, g, or t
 <400> 321

aggggaagaa acgacagcct cacttctgta tggactgctg atgtggcctg ccatcctgtt 60
 cagcgggcat tgtctttgga gcagcaggag antaggatgc ctctcactca catgccagt 120
 cctggctggc cagctgtctca gggctcaggc tggggcctcc cattgacatc ctccccctac 180
 actcctctn tgagcctcgc tcgccccctc tgttgggtaa ggggtgtgag tgtgactgt 240
 gctgaaaacc tggttcatat ata 263

<210> 322
 <211> 529
 <212> DNA
 <213> Homo sapiens
 <400> 322

gactgtctca tgtatctgca agggccgagg aaattaatga cccaaggagg ctatgatatg 60
 gtccaaaaac ttttctgga tttttccgt aggcggctga gccagaggcc aactgcagag 120
 gaactggaac agaggaacat ttgaaacct cggaatgaac aagaggaaca ggaggagaag 180
 agagagatca agaggaggct aaccgaaag ctacgtcaaa ggcccacggt ggaagagctt 240
 cgggaaagaa agatcctcat ccgttcagt gactacgtgg agtggtgctga cgctcaggac 300
 tatgaccgca gggcagataa gccgtggacc cgctcaccg ctgcagacaa agctgccatc 360
 cgaaaggagc tcaatgaatt caaagcact gagatggaag ttcattgaatt gagtagacac 420
 ttaacaaggt ttaccgacc ttaacagtcg aattcctctt gactgctatg ctgtcttcaa 480
 aacataaatt tataagaacc ataagtctg gtatttattc acttccca 529

<210> 323
 <211> 467
 <212> DNA
 <213> Homo sapiens

<400> 323

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gacatggtac cagatgcgct gcagcagaac ccgggcgcct tcaggctagc tcccgccctg   60
cctgccccggc cccaccgagg cctgagcacg ttcccgggtg ccgagcactg cctccgggct   120
tcccccaaga ccacgcttag cgggtggcttc ttggttctg taattgaacg ggctcgagatg   180
ccgacgtgag tgagtggggg catgcttggg aggcgcagga tggctactggc acatctaaca   240
tctacacttc ttagctcag cctcacagge caaagcatca gcaccagaac gcacaccag   300
cccagcccca aagagaaaga agagacagca aagagccgca gccggtgctt gcacaccgcc   360
ttgcacatag cagaggctcc aggctgactc cttcctgggtg ggaaagggaag atgcctgtcc   420
tctccgtgga ggacctggg ccctcaccgc aggcagcagt ttgcatt                       467
```

<210> 324

<211> 145

<212> DNA

<213> Homo sapiens

<400> 324

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gagaattccg aattggggaa cacacgatac ctgttttct ttccgttgc tggcagtact   60
gttgccgcgc agttggagt cactgtagt aagtgtgat gcatgtcgt caccgtccac   120
tctcctact gtattttatt ggaca                                           145
```

<210> 325

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (85)..(85)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (100)..(100)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (102)..(102)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (119)..(123)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (125)..(126)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (128)..(128)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (148)..(148)

<223> n is a, c, g, or t

<400> 325

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cctggggctg agcaaggcct acgtaggcca gaagagcagc ttcacagtag actgcagcaa 60
agcaggcaac aacatgctgc tggtnnggggt tcatggcccn angaccccct gcgaggagnn 120
nnngnnnag cacgtgggca gccggctnta cagcgtgtcc tacctgtca aggacaaggg 180
ggagtacaca ctggtggtca aatggggg 208
```

<210> 326

<211> 354

<212> DNA

<213> Homo sapiens

<400> 326

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gctccactgc taaaccaca ggacctggtt aactcctcac caagcttccc acgaccctgg 60
ttgccaatgg gcgcgggaga cattgtatac acatcatgct atttaaaata cgttcaaact 120
atagtgtaaa tgctaattaa ccatattggt atataaccgg aattttatat taaaaggggc 180
ctccttttta aatatatgcc gtgtaaaaaa tgtacttata ggaacatctc ttgaattgt 240
atttcttcta tattacatac ttagagagag actcttttag ccaggcaaag tctttttgg 300
ctgtggctgg aataaatcat ttactctg ggagtcccat ttggacact aata 354
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<210> 327

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (61)..(65)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (71)..(71)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (73)..(73)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (112)..(112)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (295)..(295)

<223> n is a, c, g, or t

<400> 327

aaggactggt atctttctgt gagcaataag gactggataa agactgcata tccttgtgtc 60
nnnnncagca ncnatacaat aaggagggtt ttaatgtgaa gcaggcaatc tncagcccc 120
ttctggtctt ggatgaaata gttgcacaga gtattgcacc aanaatacac aatggaggct 180
gaaaagtcca acatatttta agtcaattaa tcaaattgca tgattcttg atgtttctt 240
agaggcctac atgattctt agattgtctt gataaactat cataaggggt ccacntcccc 300
tcatttagct cccccaggga ttcttttcc cccatgtcat acaccagtc ctaaatcaac 360
ccccaaggct atccttccat ccttctgca gagggactt ttgtcagact ctgcaacaaa 420
ctctagctc tatccagagt gtctctgtc gctaagattg gtatcttct cctcaaaagc 480
ctggatggtg aatgggggtg cattagtcag aattctcc 518

<210> 328
<211> 509
<212> DNA
<213> Homo sapiens
<400> 328

ccaaaggttg ttctcccat tgtgcatgtc cttcagtctc ggccccatac ccatcacccc 60
attcttcacc ctcatgcttc catccaagg caaacatgtg tcttcacgg aatctatggg 120
tgttgaagtt aatgtgggg gcagagattt aacaccatga cactaataca aatcaaccat 180
tcttcacttt caaatggta atcactacag gaaggcgaac tctttcttg gttttgtt 240
aaaaacattt tatacatata tatgtatata tgttgtgtga tgtatggaca taggtatgta 300
tatgcacatg tacatgtata tatgtatata tccatcttca atataaatat atcataagt 360
agagttgtaa atactccttg gtcatatgtc tgtctttctc atagtatcat atcttcaatg 420
ttatgttaac aactccattt attgattgat gaaatcgtgt gtagacctgt atcctctga 480
catagtttat gtaggtctc ttctcaaat 509

<210> 329
<211> 539
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t
<220>
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<222> (40)..(40)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (49)..(49)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (64)..(64)
<223> n is a, c, g, or t
<220>
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<222> (84)..(84)
<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (90)..(91)

<223> n is a, c, g, or t

<400> 329

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atgaacgacc tgggtgccga gtaccancag taccaggacn ccacggccna cgaacaaggg 60
gagntcgagg aggaggaggg cgangacgan ncgtagatgc ccccgcgaga cgggttaggg 120
aaagcggagg aggaaagcga ggggggtgggg ggcttccgg gacgataacc tggcagtga 180
aggaaagaag catggtctac tttaggtgtg cgctgggtct ctggtgctct tcaactgtgc 240
ctgtcacttt ttttcttt tttgtaatat tgatgacatc aatgtaacat ttgagatatt 300
tctgaattac tgttgtaatg gctaaaatca cataaacgtt tgtgtcggaa tgggtgcctc 360
tctttctct cctttttctc ttattaacg atttaaagt aactttctga acacattgca 420
ttgaattctt cctttaacaa aaagcaaagg cgtaggtaaa agtcaaatg aatttattct 480
ttcggtatgg taaaattgaa ccaatcacag ttaagatgag agatcaacct gagtttaa 539
```

<210> 330

<211> 471

<212> DNA

<213> Homo sapiens

<400> 330

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taaaaaacag caccctatcc tgettcccca catttctgtt cctccaatga agggctaaga 60
ctatttagta atctctttct taagcagagg agtggcaagg atggcaatct tgaattttat 120
tttctgtaga gatagcattt ctctggtgct ggagctgaaa ggaatccacc cagaagttct 180
gtagcatcct gcgtgcagcc tcctggagcc ccagactcca tctggggggag ggactgttt 240
acaagcagtt ctgaccacct tagtggtgta ctgttttcta ggcaaaaaat atctgtctgt 300
tgtactgtat agcctttaa atgcagtcca ggaatgagac tctttaaga aacacatcct 360
gctctgcaa ttccagagag tgctggggga aaaaaaggga taaaaattcc tacctactca 420
tcagtgtttg aaagatggag ctgaatagct tttctgttc ctggactagg c 471
```

<210> 331

<211> 559

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (56)..(59)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (61)..(66)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (68)..(69)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (88)..(88)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (127)..(127)

<223> n is a, c, g, or t

<400> 331

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tgcattgcc cacccaagag aaggagctcg gtgacattg aggatgaagt ggaacnnnc   60
nnnnnnngnng ccaagaactc gattcttnat gtgaaagctg aagtacacaa gtccttggac  120
agttacncag caagcttggc caaagccatt gaggccgaag ccaaaatcaa cttattggg   180
gaggaggett tgccaggggt cttggttaca gcacggactg tccggggggg cggttcggg   240
ggccgccgag gcagcagaac tctgtgagc cagaggctgc agttgcagag catcgaagaa   300
ggagatgttt tagctgccga gcagagatga gggcctcagg gtgccgtggg gctgcagcct   360
gagaggctgg cccggggagg agttcccatc accgcctgtg ccgcggcctt gggagcatgt   420
cactgtgtac agctggccac acacagggaa ggagcagcat ctggtatgca gccaccagga   480
caaggactga aaataatgtc tacagtccac agcttcagca ttccagaga ccacatgtga   540
gttctttta ggtcccagt                                     559

```

<210> 332

<211> 115

<212> DNA

<213> Homo sapiens

<400> 332

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tccgcacggg cagaggagcc tgggtcccga ggggacaagg agcctgggtt gccccaccc   60
cgctgagggg gtctctcttg cccctaccc ccggggcttg tatatagatt ataaa      115

```

<210> 333

<211> 486

<212> DNA

<213> Homo sapiens

<220>

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<222> (96)..(96)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(100)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (106)..(108)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (119)..(119)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (152)..(152)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (175)..(175)
 <223> n is a, c, g, or t
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 <223> n is a, c, g, or t
 <220>
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 <222> (226)..(226)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (237)..(237)
 <223> n is a, c, g, or t
 <220>
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 <222> (248)..(248)
 <223> n is a, c, g, or t
 <220>
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 <222> (250)..(250)
 <223> n is a, c, g, or t
 <220>
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 <222> (252)..(252)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (263)..(263)
 <223> n is a, c, g, or t
 <220>
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 <222> (266)..(266)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (296)..(297)
 <223> n is a, c, g, or t
 <220>
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 <222> (302)..(303)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (321)..(321)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (337)..(338)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (341)..(341)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (351)..(351)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (409)..(409)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (446)..(446)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (450)..(450)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (455)..(455)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (461)..(461)

<223> n is a, c, g, or t

<400> 333

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tgacctgtg tagaacatag ggatactgca ttctggaaat tactcaattt agtggcaggg   60
tggttttta attttctct gtttctgatt ttgtngtnn ggggtnnntg tgtgtgtng   120
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tntaacagag aatatggcca gtgcnttgag   180
ttctttctcc ttctctctct ctctttttt tnnaaataac tcttcnggga agntggnttt   240
ataagccntn tngccagggtg tanacntgtt gtgaaatacc caccactaaa gtttnnaag   300
tnnccatatt ttctccattg ngccttcta tgtattnnca nagattatc ntgtgcactt   360
taaatttact taacttacca taaatgcagt gtgacttttc ccacacagnt ggattgtgag   420
gctcttaact tcttaaaagt ataggnggcg tcgtngtgaa ntctataag cagtctttat   480
gtctct
486

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<210> 334

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (191)..(192)
 <223> n is a, c, g, or t
 <400> 334
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 caaggcgcc tcacctgctc ttcaagaaac agcgagaggg agaccagggg ggctgaaact 120
 tgaactctgg ttcttttaa attaatgtt gttggtgtg ggggagggcg gtagtgcgtg 180
 gagaagaacc nccccacccc gcgcaagggg aagcctcctg tctccccctt ccccgcgcc 240
 gagaaggcgg aaaccacag tttacctga cttatgaaac ttgaaaccgc ctctggagcc 300
 gccattctgc agagtatttg gaaaaagaaa aaagggttta tgcttacgct tctggggtcg 360
 gggggattat gtcacgagcg ttcaaactgc tggaaatctc aaaactgtac tgtctttatt 420
 ttgtatatt gtatttat ataaaaagaa acgtctacgt atgcatgcta aat 473

<210> 335
 <211> 562
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (241)..(243)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (247)..(247)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (251)..(253)
 <223> n is a, c, g, or t
 <220>
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 <222> (256)..(256)
 <223> n is a, c, g, or t
 <220>
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 <222> (259)..(259)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (261)..(264)
 <223> n is a, c, g, or t
 <220>
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 <222> (339)..(348)
 <223> n is a, c, g, or t
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 <222> (352)..(353)
 <223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (355)..(355)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (357)..(357)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (359)..(360)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (362)..(366)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (404)..(404)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (537)..(537)

<223> n is a, c, g, or t

<400> 335

gaggcatgac ggattgcacc tgaatcctat ctgacgttcc attccagcaa gaggggctgg 60

ggaagattac atttttttc ctttggaac tgaatgcat aatctgac aaaccgatcc 120

agaataccga agatcggcac aggacagaaa agcgagtcgc aggaggaagg gagatgcagc 180

cgcacagggg atgattaccc tctaggacc gcggtggcta agtcattgca ggaacggggc 240

nnngtntct nnngnacna nnnnggagct catctctttg gggtcacagt tctattttgt 300

ttgtgagtt gtattattat tattattatt attattatnn nnnnnnnnt tntntntnn 360

gnnnntgag caactcaaag aggcagaaga ggagaatgac ttncacaga tagaagtgga 420

gcagtgatca ttattctcg ctttctctt ctaatcaaca cttgaaaagc aaagtgtctt 480

ttcagccttt ccattttac aaataaaact caaaaagcc gtccagctta tccatnctc 540

tgattgtctt ctgacttaag gg 562

<210> 336

<211> 189

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (85)..(85)

<223> n is a, c, g, or t

<400> 336

tctgacttcc atctgggggc tgagaccacc ctgectgcc ccttttttc tgccttaaga 60

atgtcctttt aggctgggca tggtnngctc acgectgtaa cccagcaact ttgggagggc 120

gagacgggca gataacctga ggtaggatt tcgagaccaa cctgacctac atggagaaac 180

tccgcctct

189

<210> 337
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (74)..(74)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (86)..(86)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (434)..(434)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (456)..(456)
 <223> n is a, c, g, or t
 <400> 337

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tgaggagatt gccatggcga cgcgcacagc gctgcgcngc acagtgnccc ccgctgtcac   60
tgggatcacc ttentgtctg gagcnagag tgaggaggag gcgtccatna acctcaatgc   120
cattaacaag tgccccctgc tgaagccctg ggccctgacc ttctcctacg gccgagccct   180
gcaggccctct gccctgaagg cctggggcgg gaagaaggag aacctgaa'gg ctgcgcagga   240
ggagtatgtc aagcgagccc tggccaacag ccttgcctgt caaggaaagt acactccgag   300
cggtcaggct ggggctgctg ccagcgagtc cctcttcgtc tctaaccacg cctattaagc   360
ggaggtgttc ccaggtgcc cccaacactc caggccctgc cccctccac tcttgaagag   420
gaggccgct cctnggggct ccaggtggc ttgcngcgc tctttctcc ctctgacag   480
tggtgtgtgg tgtcgtctgt gaatgctaag tccatcacc ttt                               523

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<210> 338
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (161)..(161)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (165)..(176)

<223> n is a, c, g, or t

<400> 338

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tattgtcatc tgatatacac ataaaacaac tcacattgtt ggagttaact aattatcccc 60
atttcattgt ttacagtggc aacttactga ccttgtttt tgctgtgct tgtatgcatg 120
cattttcaag caagtaataa agcagcctca ttaattctg nanannnnnn nnnnnnacat 180
atagactgaa tgctataatc aaatctattg acagtatctg cagttcttc agaattccag 240
ggcaataata ataacgacct gatattcttc tacaggaata tticagaca ttatatagca 300
cattactgat ttaatgcttt tacttttatt ttcaaaaaca aattcactaa aaattaacag 360
ctatgattct gaagtcacct ttctcaaacc tgaaaatga gctctaggat ctctataaac 420
atttcaaca ctttctctgt agttaccata gacagacatc tgcgttaga cctgtgtggt 480
atttcaaaga act 493
```

<210> 339

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (61)..(61)

<223> n is a, c, g, or t

<400> 339

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ttgcacttc ctccggagag catctaagat tggagagggt gatgtcgagc aacatacttt 60
ngccaaatac ctgatggaac taactatgtt ggactatgac atgggtgact ttctccttc 120
tcaaattgca gcaggagctt ttgcttagc actgaaaatt ctggataatg gtgaatggac 180
accaactcta caacattacc tgcatatac tgaagaatct cttctccag ttatgcagca 240
cctggctaag aatgtagtca tggtaaatca aggacttaca aagcacatga ctgtcaagaa 300
caagtatgcc acatcgaagc atgctaagat cagcactcta ccacagctga attctgcact 360
agttcaagat ttagccaagg ctgtggcaaa ggtgtaactt gtaaacttga gttggagtac 420
tatatttaca aataaaattg gcaccatgtg ccactgtac ata 463
```

<210> 340

<211> 262

<212> DNA

<213> Homo sapiens

<400> 340

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taagtgtgaa gaatgcgaga agagcttcaa acagcgtctt gacctctta aacaccacag 60
aatccacact ggggagaagc cctatggatg ttccgtctgt gggaaacgct tcaatcagag 120
tgcaaccctc attaaacacc agagaattca cactggggaa aagccttaca aatgtcttga 180
```

atgtggggaa agatttagac aaagtacaca ccttatccga caccaaagaa ttcataaaa 240
 taaagtgtg tcggctgggc gt 262

<210> 341
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (181)..(181)
 <223> n is a, c, g, or t
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 <223> n is a, c, g, or t
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<221> misc_feature
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 <223> n is a, c, g, or t
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<221> misc_feature
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 <223> n is a, c, g, or t
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<221> misc_feature
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 <223> n is a, c, g, or t
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<221> misc_feature
 <222> (397)..(397)
 <223> n is a, c, g, or t
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<221> misc_feature

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<222> (403)..(403)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (408)..(408)
<223> n is a, c, g, or t
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<222> (411)..(411)
<223> n is a, c, g, or t
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<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (420)..(420)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (430)..(430)
<223> n is a, c, g, or t
<400> 341
tattcatgaa ttcttgacaca ttatgaagaa agagtccatg tggtcagtgt cttacccggt 60
gtagggtaaa tgacactgat agcaataact taagcacacc ttataatga ccctatatgg 120
cagatgctcc tgaatgtgtg ttctgagcta gaaaatccgg gagtggccaa tcggagattc 180
ngtttcttat ctataataga catctgagcc cctggcccat cccatgaaac ccaggctgta 240
gagaggattg aggccttaag ttttgggtta aatgacagtt gccaggngtc gctcattagg 300
gaaaggggtt aagtgnnnnt gctnnatnnn ctgcatgatg ttgcaggca gttgtggttt 360
tctgcccag cctgncacca nogggnccat gcggatntgt tgnccancc naacaccncc 420
ggaccatttn tgtatgtaag acaattctat ccagcccgc 459

<210> 342
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (315)..(315)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (388)..(388)
<223> n is a, c, g, or t
<400> 342

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caggcaacaa catgctgctg gtgggggttc atggcccaag gacccctgc gaggagatcc  120
tggtgaagca cgtgggcagc cggtcttaca gcgtgtccta cctgctcaag gacaaggggg   180
agtacacact ggtgtgcaaa tggggggacg agcacatccc aggagcccc taccgcgttg   240
tggtgccctg agtntggggc ccgtgccagc cggcagcccc caagcctgcc ccgctacca   300
agcagccccg cctnttccc ctcaaccccg gccagggccg ccctggccgc ccgcctgtca   360
ctgcagccgc ccctgccctg tgccgtgntg cgctcacctg cctccccagc cagccgctga   420
cctctcggtt ttcacttggg cagagggagc catttggtgg cgctgcttg cttcttgggt   480
tctgggaggg gt                                     492

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<210> 343
 <211> 333
 <212> DNA
 <213> Homo sapiens

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<220>
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<222> (274)..(274)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g, or t
<400> 343
gaagtcagct gggcattcaa agaagctaga ctgagaacgc ctgagaagaa ccagctacgg   60
gaagagcttt gggaagcaaa ggcagaggcc ctgggggtggg agcaggcttg ttttattgga  120
aggaccagaa aactggttaag tgtgaccag atcaagtgtg aggagatgag gctggggata   180
gtcaggggct ggatcaccca gggccttgtg ggccccacat aggggtttgg gttttattct  240
cagggcaatg ggaagctgtt ggtggtttg atgnaagggg agtgacagga tccgatgtnc   300
ctatttaaga atttaaggag gtcgggtgcg gtg                                     333

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<210> 344
 <211> 514
 <212> DNA
 <213> Homo sapiens

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<220>
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<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (68)..(68)
<223> n is a, c, g, or t
<220>
<221> misc_feature

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<222> (91)..(91)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (97)..(97)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (103)..(103)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (133)..(133)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (138)..(138)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (150)..(150)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (158)..(158)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (170)..(170)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (316)..(316)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (411)..(411)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (481)..(481)
 <223> n is a, c, g, or t
 <400> 344

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 tgccaccnca aaccatcaca gagtctttaa ntgcaantca atnggtcant gctagtcaaa 120
 gctatgttct tanaaaancc ccagacagcn tcagagcntc agaaaatccn tgtggagtgg 180

ctgctctgta ccgtgggcat ccggcagcca ggaagtgaga caacataatt ataactttgt 240
 ttatgatgc tgcattcatt gtactgttta ggtcgacgtg aggacatcat cttatttaga 300
 atttccggt tggcantctc tttgggtgg gagttatgct gggggttgta aataatgaca 360
 aggctgagat tttatgatg tttaaattgg gcacaatgat ttgacctta ntcccaaac 420
 ttctttctt ttctactgtt taacatacac aggctattta tacacgtccc cagctcccat 480
 ntgaaacctg tgactcaggt ttatgaatgg tggt 514

<210> 345
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (309)..(309)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (318)..(318)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (324)..(324)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (357)..(357)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (359)..(359)
 <223> n is a, c, g, or t
 <400> 345

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 cccccggccg tccccctca tcgcccgcg cccacccca tcgcccctgc ccccggcggc 120
 ggctcgcgt gcgagggggc tccctcacc tcggtgcctc agttccccca gctgtaagac 180
 agggacgggg cggcccagtg gctgagagga gccggctgtg gagccccgcc cgccccccac 240
 cctctaggtg gcccccgtcc gaggaggatc gttttctaag tgcaatacnt tggccccgcg 300
 gnttcccgnt gcccccantc gcgntcacgc aataaccggc ccggcccccg tccgcgngng 360
 tccccggtg acctcgggga gcagcac 387

<210> 346

<211> 550
 <212> DNA
 <213> Homo sapiens
 <400> 346

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ctccttgccc ctattgtga gcagaaaccc cactttccct tggatattgg ggtaaccat   60
cctgacagtg cagtgatctc ttctctgcc aatattcaa cataaggagc ccagatggc   120
acaagatcat ctccaattt aacagacca taactatatt ccttggtgga agcagttcct   180
cttggtcact agagatttcc aaaccacaa aacctaaagg ttcttggtta aaggccatgt   240
ttgtgggata tgctgagatg aatatgctgt ggtttgaatg tgcaccccaa agttcatatg   300
ttggaactt gattccatt gcaacagtgt tgagatctgg ggcccaatga gaggtgatta   360
ggccatgagg gcgagtgaa tggattaatg cagttatctc aagagtgggt ttgttatgaa   420
gggggtgttt ggctctctt ttctcttgc ccatgtgatt cctccacca tgtttatgat   480
gcaacaagaa ggtctcacc agatgtggt tccttgatct tgtatttgc agctccaaa   540
atcgtgagcc                                     550
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<210> 347
 <211> 535
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (256)..(256)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (502)..(502)
 <223> n is a, c, g, or t
 <400> 347

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tagagatcat ctagtcccat caactcacta tatatatgag gaacctgagg tccagagtgg   60
ggaagtgtct tacccaaggc cacatgggtt cagagaaatt atgttgaatc caataagcct   120
tccggacat tccaagcctc ttaaccatgg catctatgtt gaggatgtca atgtttattt   180
cagcaaagga cgtcatggct tttaaaaact ccttttaage ctcttgttt tgatgtcacc   240
ttggtaggct gggcncntct agaggttgga agctctaggg attgttctct ttggtaccag   300
ggatgctaag tagaaactgc atgagccacc agtgccccgg cacccttaa caccaccaga   360
tgggtgtttt ccccatcca cactggcag gggtgcccct tccccaat catcactgtg   420
ctctttttt cccggcctac gaggcagctc ctgccactat ctttagagcc aataaagaga   480
ataaaaacc tgtgcaccag gnagcatctt taaatacac tagccattct ctgic       535
```

<210> 348
 <211> 517
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (210)..(210)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature

<222> (481)..(481)

<223> n is a, c, g, or t

<400> 348

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ttcgctggat gcctcctgaa agcatcatgt accggaagtt cactacagag agtgatgtat   60
ggagcttcgg ggtgatactc tgggagatct tcacctatgg aaagcagcca tggttccaac   120
tctcaaacac ggaggtcatt gaggtcatta cccaaggctg tgtttggag cggccccgag   180
tctgccccaa agaggtgtac gatgtcatgn tggggtgctg gcagagggaa ccacagcagc   240
ggttgaacat caaggagatc tacaaaatcc tccatgcttt ggggaaggcc accccaatct   300
acctggacat tcttggctag tgggtgctgg tggatcatgaa ttcatactct gttgcctcct   360
ctctccctgc ctacatctc ccttccacct cacaactcct tccatccttg actgaagcga   420
acatcttcat ataaactcaa gtgcctgcta cacatacaac actgaaaaaa ggaaaaaaa   480
naaagaaaaa aaaacccgtg aaggcagttt ggcaaat                               517

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<210> 349

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (83)..(83)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (298)..(298)

<223> n is a, c, g, or t

<400> 349

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ggacaaacag cctctgcaat acttgaggag cttgttagaa acccaaactc acagccccct   60
ccagacctac gtacagaatg tanattagca agattcgcta ggtggtttat gtgcacgta   120
aagttaaga agcactgcct gagaatccct tggctctaata taattctttt ccactactag   180
atttgctaata gggtttacc ttatctcttg actcttggtt gatggcaaca ggaaatagta   240
gcatttcagg aagggtggaa aatataaaaa gcactcccaa cccaagcctc caaaaaanca   300
gcaattttca ttttgtgtcc atatatccc ttctaatcat tgcctcatg caagattttt   360
ttcataaag atgatctgct acataatttt atatcatact ctttctccta acattacatc   420
acaagtatac ttcatgttg ctgctacatt cttcacact                               459

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<210> 350

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (33)..(34)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (88)..(88)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (288)..(288)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (349)..(349)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (380)..(380)
 <223> n is a, c, g, or t
 <400> 350

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 atgaaggtgg agctgagccg tagaactntc tgggagccat ccaacctggc tgtggctcat 120
 aacaaggtat tgatcacttc ctttggcctg agtgagtcca gggcgcttag acaagaggta 180
 gcagcctgtg gatgtccagc accttgcag ggaatacagg gcccaatctg gcacatgccc 240
 ctttctctcc aggccagag caggggctgt tgccgaaagg ctgtgganca acaagttgac 300
 atctgacctg acatttgcct atgaacgttt gtcacacttc cgtgtgant tgctgaggta 360
 agcaagctgt ggggccttcn caaggcggag caggccagat ccagggctgg ggaaccctt 420
 agagagagga agacaataat taacaatagc taacacttac agaggcttat agtcagccct 480
 catcc 485

<210> 351
 <211> 553
 <212> DNA
 <213> Homo sapiens
 <400> 351

agtgtcttc tctctggcaa agatttgtgt actgttgggg gaagattcat gttattctc 60
 aggtagactt tacttttga gattctgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtatgt 120
 gtgtgtgtgt gtgtatttg cctggtgggg ggttaaaggc agatagaatg tagttgttta 180
 tgagtttata ctttctctt agcataatag atgccctgtt tatttctca gaatgtgaca 240
 ataaaattag gaaaggagag gaattcagag gcccatgttg cagttcatgg caaagtttta 300
 cccaaatatt tcttcagaa acatttagtc atagcaagcc atataaatta ttgtctgcaa 360
 ctggtatcag aaaaagaaat cagtaggtgg ggactgtaga cccaatggt gcatctgttt 420
 acaatcttcc tttccaagg tttaagggt catgaataac atgagggaaat ttggggagag 480
 ctaccacatc agtactttgg cacgcattaa ctgtccaca ggaaaactag ggttgcttca 540
 gggctatttt tgt 553

<210> 352
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (186)..(186)
 <223> n is a, c, g, or t
 <220>
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 <222> (193)..(193)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (297)..(297)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (319)..(319)

<223> n is a, c, g, or t

<400> 352

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gccttttggg agtgcgtggg ggtggtctgg gtgtatggag ctgaccgctt cacggacgac   60
attgcctgta tgatcgggta ccgacctgc ccctggatga aatgggtctg gtccttcttc   120
accccgctgg ttgcatggg catcttcac ttcaacgttg tgtactaaa gccgctggtc   180
tacaanaaca ccnacgtgta cccgtgggtg ggtgaggcca tgggctgggc cttcgtgctg   240
tctccatgc tgtcatgcc actgcacctc ctgggctgcc tctcagggc caagggnacc   300
atggctgagt gctggaagna cctgaccag cccatctggg gcctccacca ctgggagtac   360
cgagctcagg atgcagatgt caggggcctg accacctga cccagtgct cgagagcagc   420
aaggtcgtcg tgggtggagag tgcctatg                                     447
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<210> 353

<211> 538

<212> DNA

<213> Homo sapiens

<400> 353

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gccagctttg ggctgagcta acaggaccaa tggattaaac tggcatttca gtccaaggaa   60
gctcgaagca ggttaggac caggtccctc tgagaggtca gaggggcctc tgtgggtgct   120
gggtactcca gaggtgccac tgggtgaagg gtcagcggag cccagtgcc tccttggtga   180
tagaccttct tctccaccc cctctgccc ctgggtcccc ggccatccag cggggctgcc   240
agagaacccc agacctgccc ttacagtagt gtagcgcccc ctccctcttt cggtcgtgtg   300
agaatagcca gtagtgtagt gcggtgtgct ttacgtgat ggcggtggg cagcgggcgg   360
cgggtccgc gcagccgtct gtccttgatc tgcccgcggc ggcccgtgtt gtgtttgtg   420
ctgtgtccac gcgctaaggc gacccctcc cccgtactga cttctctat aagcgttct   480
cttcgcatag tcacgtagct cccacccac cctcttctg tgtctcacgc aagtttta   538
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<210> 354

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (27)..(27)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (74)..(74)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (91)..(91)

<223> n is a, c, g, or t
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 <222> (100)..(100)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (112)..(112)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, or t
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 <222> (138)..(138)
 <223> n is a, c, g, or t
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 <222> (155)..(155)
 <223> n is a, c, g, or t
 <220>
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 <222> (162)..(162)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (169)..(169)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
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 <223> n is a, c, g, or t
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 <223> n is a, c, g, or t
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 <222> (186)..(186)
 <223> n is a, c, g, or t
 <400> 354

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 gtagatgacg gctnccgcat ccacgtcatt naccacagtn gcgcccgcnt tngtgagtat 120
 naggacgtgt cccgggtnga gaagtacacg atctncacaa gnaagcctna cgaccagagg 180
 nnangnacgg gcaggtgggc gtcgagggac acggtccgct ctttctgaa gcgcagcaag 240

ctcgccgggt acaacgagga ggagcgggct cagcaggagg ccgaggccgc ccagcgcctg 300
 gccgaggaga aggccaggc cagctccatc cccgtgggca gccgctgtga ggtgcgggcg 360
 gcgggacaat cccctgccg gggcaccgtc atgtatgtag gtctcacaga ttcaagcct 420
 ggctactgga ttggtgtccg ctatgatgag ccactgggga aaaatgatgg cagtgtgaat 480
 gggaacgct acttcgaatg ccaggccaag tatggcgctt ttgtcaagcc agcagtcgtg 540
 acggtggggg acttcc 556

<210> 355

<211> 497

<212> DNA

<213> Homo sapiens

<400> 355

cgtctgct caccgaaaga cagatcaaga ttggtttca gaaccggcgc atgaagtga 60
 aaaacgagaa caagaccgcg gccccggcca ccaccggcca agacagggt gaagcagagg 120
 aggaagagga agagtgaccg atggagaaag ggcacaggaa gagacatgag aaggagagc 180
 aagacaagca gctctgggaa ctgaatcagg aaactcaaat cgaataggga actaaaaaac 240
 aaaacaaaaa acaaaaaaaaa acaaaaaaaaa accctattta atgaaacga gtttaaaaaac 300
 atttttaag gagggagggt tgggttttt gtacaatatg aaaaggacat tatctacctg 360
 ttctgtagct ttctggaatt tacctccct ttctatgtt gctattgtaa ggtctttgta 420
 aaatcttga gttttgaag ccctctttaa tgctgtctt gtggactgtg ggtctggact 480
 aacctgtgg ttgcctg 497

<210> 356

<211> 533

<212> DNA

<213> Homo sapiens

<400> 356

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 acaccatgct cccattcgc tggatgctc ctgaaagcat catgtaccgg aagttcacta 120
 cagagagtga tgatggagc ttcgggggtga tcctctggga gatcttacc tatggaaagc 180
 agccatggtt ccaacttca aacacggagg tcattgagtg cattaccaa ggtcgtgtt 240
 tggagcggcc ccgagtctgc ccaaagagg tgtacgatgt catgctgggg tgctggcaga 300
 gggaaccaca gcagcgggtg aacatcaagg agatctaca aatcctccat gctttgggga 360
 aggccacccc aatctacctg gacattctg gctagtgggt gctgggtgac atgaattcat 420
 actctgttgc ctctctctc cctgcctcac atctccctc cacctcaca ctccttccat 480
 ccttgactga agcgaacatc ttcatataa ctcaagtgc tgctacacat aca 533

<210> 357

<211> 534

<212> DNA

<213> Homo sapiens

<400> 357

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 atggcaccag gatttgaatc tgggtcttta tacatcatag cccatgctgt tctactgta 120
 ttttctttt tccaagtata acccgtttt cacacgaatg gccccttcac atatttgaag 180
 actaccgtcg tgccgtgtg gaccctttct cctgccaca catggctgga gtgcaatggc 240
 gcgatctcgg ctactgcaa cctctgtctc ccagggtcag gaaatggct ttgtaaagaa 300
 gcttgagcct aaatctggct ggatgacttt tctagaagt acaggaaaga tctgtgaaat 360
 gctcttctgt cctgaagcaa tactgttgac cagaaaggac actccatatt gtgaaaccgg 420
 cctaatttt ctgactctta cgaaaacgat tgccaacaca tacttctact tttaataaa 480

caactttgat gatgtaactt gaccttcag agttacagaa atttgtccc tatt 534

<210> 358

<211> 260

<212> DNA

<213> Homo sapiens

<400> 358

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 cttgagggtt ggtcctgtcc ccacctccac cctcccaccc cctggaagag gaagggcccg 120
 ggcacagtgt gctagtccaa ataaaatatt ggcttgggga tggaaatgggt ggtggtaagt 180
 tcacagagtgt tagtttagatc ccaactccca tgacctctgg ctfcagtgtt gggtggggca 240
 gggcagatga aagggtctca 260

<210> 359

<211> 399

<212> DNA

<213> Homo sapiens

<400> 359

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 cccccaactg actgcctgcc ccccgccctg ggccagacca atggctgaga gccacagctg 180
 acaaagtctg catgtccgag gacggcccct gcaactggagc tgggcgccag agctgcagag 240
 ctagtgttcg gccctcagag aaggatccag aatcaaaagc tcaagagtga cgtgaggtgg 300
 gcaccggccc caagtgcaga gtcaaggcag ggagaggccg gctggagcca ggccccctcg 360
 cagcagcccc ccaaatcatg gacgcacctg tggggagca 399

<210> 360

<211> 458

<212> DNA

<213> Homo sapiens

<400> 360

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 ggagcttcgg ggtgatcttc tgggagatct tcacctatgg aaagcagcca tggttccaac 120
 tctcaaacac ggaggtcatt gattgcatta cccaaggctg tgttttgag cggccccgag 180
 tctgccccaa agaggtgtac gatgtcatgc tggggtgctg gcagagggaa ccacagcagc 240
 ggttgaacat caaggagatc tacaaaatcc tccatgcttt gggaaggcc accccaatct 300
 acctggacat tcttggctag tgggtgctgg tggatcatgaa ttcatactct gttgcctct 360
 ctctccctgc ctcacatctc cctccacct cacaactct tccatccttg actgaagcga 420
 acatcttcat ataaactcaa gtgcctgcta cacatata 458

<210> 361

<211> 518

<212> DNA

<213> Homo sapiens

<400> 361

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 aagaccatcg cctgcgcga gggcctgcga ggggctatcg agaggagctc actgtgggat 120
 ggggttgacc tctgccgctt gcctgggtat ctgggcctgg ccatggctgt gttcttcatg 180
 tgttgatttt atttgacccc tggagtgtg ggtctcatct tcccatctc gcctgagagc 240
 ggctgagggc tgctcactg caaatctctc ccacggcgtc agtgaaagtc gtcctgtct 300

caggatgacc aggggccagc cagtgtctga ccaaggtcaa ggggcaggtg cagaggtggc 360
 agggatggct ccgaagccag aaatgcctta aactgcaacg tcccgctcct tccccacccc 420
 catcccatcc ccacccccag ccccagccca gtctctctag gagcaggacc cgatgaagcg 480
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<210> 362
 <211> 560
 <212> DNA
 <213> Homo sapiens

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<222> (490)..(490)

<223> n is a, c, g, or t

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<221> misc_feature

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<220>

<221> misc_feature

<222> (525)..(525)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (528)..(528)

<223> n is a, c, g, or t

<400> 362

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aatatcttgc caacantgta atgacaaaat aaattcccgt gaagtccac aaccaggccg 120
ggcatggtgg ctcatgcctg taatcccagc acnttgggag gtgaggtggg tggatcatct 180
gaggtcagga gttcaagacc agcctggcca acatggagaa actccgtctc tactananat 240
acaanaatna accaggcttg gtggtgtatg cctgtaatcc cagctacttg ggaggctgag 300
gcaggagaat cgcttgatcc caggaaaggca gaggtggcag tgagctgaga acgcacaact 360
gcactccagc ctgggtgacg agcaaaactc catctcaaaa caaaagtcc acaaccagcc 420
tggagntgtg tagccctttt gtccanggaa nttgactagt caatcagtga cacctggtac 480
tggcagnltt gggagtggca gnccaggatg gacagcagtg ggganggnac catttggcat 540
aaggccgttg ggcttcagga 560
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<210> 363

<211> 390

<212> DNA

<213> Homo sapiens

<400> 363

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cagtataaag cagggagcta attaagagta taaaactta aaaccatttt ttgactctga 120
tttaagtac atttttatat gtcagttgct gcccttcaca ctaccaggcc ctgcagccac 180
agtgttctgt tggagaaact tggggaagtg tttctgaac cagttctttt tcttggggta 240
gagcgtgaaa tccagacctg ttttgaaag gacagcacag gaggagaaaa gtgactggga 300
cgatgcttcc tctcatcaa aacacatgca gagtcacatc ctcatcctag tgtttggcag 360
tttgagaccg ctaccctgaa cttagagct 390
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<210> 364

<211> 532

<212> DNA

<213> Homo sapiens

<400> 364

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ggttcgtcag gtcaccggt tctcactgtg tctgggaagt aggactgatg gtcatttca 120
tgacaggcgg catctccact aagcctgtgt aactgttccc tcttgggtt tcttagcttt 180
tgaattgaa gaagtacttt tgaagactcc cattttaaga accgtgcaga ttttctacc 240
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aaaagtcttc accactgtgt tcttaagtga atgttaattt ctgaggtttg ggactttgtg 300
 gtggtttttt tcttcttttc ttctccattc ttctttcttt ctttttatgt tgtttgctgt 360
 aaatgctgca catccagatt gcataacagg acattgggta ttttatgctt tcttgatat 420
 aaccatgac agagtgccat ggccactacc cactgtttg ctctcctgca aatcaactgc 480
 ttttaattta cactaaaca aattgttttg agtgtagct actgccttc ta 532

<210> 365

<211> 471

<212> DNA

<213> Homo sapiens

<400> 365

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 cagaaattgc aggtgctgca gtgtctgaaa ttccggggcc ttctcaaca gaggatgtag 120
 ccagcaactg tgtccccgct cagtctttga gcgagcccat tttgtggatt gtgtcctatg 180
 cgctcatgag cgctctgtgga gccatcctcc ttgtcttaat cgctctgctg ctgtgcccgt 240
 tccgggtgca gcgtcgcccc cgtagccctg aggtcgtcaa tgatgagtc tctctgggta 300
 gacatcgctg gaaatgaata gccaggcctg acctcaagca accatgaact cagctattaa 360
 gaaaatcaca ttccagggc agcagccggg atcgatggg gcgctttctc ctgtgcccac 420
 ccgtcttcaa tctctgttct gctcccatg gccctctaga ttcactgtct t 471

<210> 366

<211> 505

<212> DNA

<213> Homo sapiens

<400> 366

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 tattgactgc ctgaaatct ttttgaacga ttctgccaca gaaggcatca tattgattgg 120
 tgaaattggt gtaatgcag aagagaatgc tgcagaattt tgaagcaac ataattcagg 180
 tcaaattcc aagcctgtag tgccttcat tgcgtgttta actgctctc ctgggagaag 240
 aatgggtcat gccggggcaa ttattgctgg aggaaaagg ggagctaaag agaagatctc 300
 tgcccttcag agtgcaggag ttgtggtcag tatgtctct gcacagctgg gaaccacgat 360
 ctacaaggaa ttgaaaaga ggaagatgct atgaaagaaa aaaaaattc ctaaaactgt 420
 ggaatggatc acgtagacat gtaaccacgc agcagtttg tctgttgc cactgattaa 480
 tcagcctatg tgcctgacac tggtc 505

<210> 367

<211> 312

<212> DNA

<213> Homo sapiens

<400> 367

gtgggagcac gaacgaggtg ggagttctgt cccccatgc ctggccctaa agtctcttgc 60
 acaccagctc gtcactgctt gccctaccca cctctgtcca gtctacacac ccagcccagg 120
 cttaactcat gccaaactca cctacatgg ctgccctgtg cctcgggat aaacccaag 180
 cccctgagct tgtgtttaaa gccgttgcc ttgtccccc agctttgtca gctcaggtct 240
 gtctacacc agatggtagc gcttgtaga ctggcctggc agtctgtc acagtgttct 300
 gtgcctgtgt gc 312

<210> 368

<211> 501

<212> DNA

<213> Homo sapiens

<400> 368

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gctttgttaa attgtgtca gttctgttac acagtgcatt gccctttgtt ggggggtatgc   120
atgtatgaac acacatgctt gtcggaacgc ttctcggcg ttgtccctt ggctctcacc   180
tccccattc ctgtgcctac ttgcctgag ttctctacc cccgcagttg ccagccagat   240
tgggagtcctg ttgttccaa tgggttgagc tgtctttgtc gtggagatct ggaactttgc   300
acatgtcact actggggagg tgttctgct ctagcttcca cgatgaggcg ccctctttac   360
ctactcttc aatcactact ctcttgaag cactattatt tattctccg ctgtctgcct   420
gcagcagtac tactgtcaac atagtgtaaa tggttctcaa aagcttacca gtgtggactt   480
ggtgttagcc acgctgttta c                                     501

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<210> 369

<211> 569

<212> DNA

<213> Homo sapiens

<400> 369

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cctgcgtgtt gagtgtgtgg gcggcagtg tttccggagg cctgggtccat ctggagtttt   60
gaggggtgag gggaccagag cagtgggacc agcatgggga tcagcttccc ttccccacct   120
gggagccagg gactgtccgg gtagccagtt ttggtctgc cagctgcctc cctgatccct   180
ccccactctc gcccttctc tatgaactta aaatcaaaaa accacttccc tcccatctcc   240
tccctgctcc tgcgtggagg gggaatgtgt gctggccagg gtggaggact gagcacctga   300
gcctggggct ggtccccggg ggtccccgac tcagctgggtg gctgtggagc tgagtcacct   360
ccccgtaacc tctgaaggc cagcaccac catcactacc tgcacctgct gtggtccac   420
cctctggagg cctgggaacc tggctgcagc ctgggaaggc tggagaggca gacggtggga   480
cccaccagct ctctcccat cccgttctt ccttggggcc aggccttacc tgtgtggtgg   540
tgggtgggct gtcaagacgt gtcattgac                                     569

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<210> 370

<211> 459

<212> DNA

<213> Homo sapiens

<400> 370

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cagcatcgac gcacgcgaga tcttcgatct gattegetcc atcaatgacc cggagcatcc   60
actgacgcta gaggagtga acgtagtaga gcaggtcggg gttcagggtta gcgaccccga   120
gagtacagtg gctgtggctt tcacaccaac cattccgcac tgcagcatgg ccacccttat   180
tggctgttcc atcaaggta agcttctgcg ctcccttct cagcgttca agatggacgt   240
gcacattact cgggggaccc atgctcaga gcattcagtg aacaagcaac ttgcagataa   300
ggagcgggtg gcagctgccc tggagaacac ccacctctt gaggttgtga atcagtgcct   360
gtcagcccg ccttgagcct ggcctttgac cctcagcct gcatactgt atcctggtcc   420
cagctctgc cagggtgtt accgttgtt tcttgaatc                                     459

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<210> 371

<211> 333

<212> DNA

<213> Homo sapiens

<400> 371

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tgcagccctg tctactctgg ataactctt cctggccata tcagtcatca tgatggtgt   60
ggctggcttc ttacctctt gtgccgtgt ctcagtctt ctctgcagc ggggtgcact   120
cctctaccga cggacagggg ccagcttcca gcaggcccag gaggagttt cccagggcat   180

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cttcagcagc agaaccttcc acagagctgc ttcattctgct gccaagagg cctccagg 240
 gaattagtc tctctcttc tctcccttc agcctttctc tcgctgcct tctgagctgc 300
 actttccgtg ggtgccttat gtggtggtgg ttg 333

<210> 372

<211> 422

<212> DNA

<213> Homo sapiens

<400> 372

gcgtgttctc ctacgtgaag gtggcagcca gctccctgct gcatggcggg ggccggccgg 60
 cattgtggc agccggcgtg gccatccagg tgggctctct gctcggcgt gttgctatgt 120
 tcccccgac cagcatctat cacgtgttcc acagcagaaa ggactgtgca gaccctgtg 180
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 gccaccatgc ctgagtgcct gcagcccagg aggcccgac accggtacac tcgtggacac 300
 ctacacactc cataggagat cctggcttct cagggtgggc aagggaagg agcaggcttg 360
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 tg 422

<210> 373

<211> 439

<212> DNA

<213> Homo sapiens

<400> 373

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 aaatgctgtc ttcccgatg gctactcacc tgcctctggt ggctgggatt cagatgccac 180
 aaaactgtca gtatctatag accaggcttg tgccacctcc tctctctct gtgctcagt 240
 aggaggcagt aaatgaagtt acaggctagc acaataccta actcatgttt ccagttacac 300
 ctgtagatat tactgtactt ttatgttctc aagaataag ttgtgccta ttcatgttta 360
 cagatttctt tgtttcttt taattaaaat acaagaagca gctgaggaaa ggagacaag 420
 gtattttatt tctgactga 439

<210> 374

<211> 453

<212> DNA

<213> Homo sapiens

<400> 374

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 ctcccctggc attccagctt tgcaggtgac cctctctac ccaaagctct gtcacctgc 120
 tccactcca gaagaactgc ggcacgtgct tcgggcagcc tagccacagg ctttgagcgc 180
 ctgcattctt gggggctgga ggggtgggtg ccaaaggccc tgagcaaaag ccagagctcc 240
 tctcatcaa gcctttaca ggtactgggc ccagaggctt tgccttgaca gattggccca 300
 gggtttcaag ggaggaggaa cctccccta ctaggaccc ttctgtggg ggggtctacag 360
 agtcagggac agaagggaag ggaccacag gaagtcacag tgggtcccag ggaatgtgca 420
 gccccagcc acggggacgc gggattcaag aat 453

<210> 375

<211> 488

<212> DNA

<213> Homo sapiens

<400> 375

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ttaatcccat gcatgccaaa cacttttcac acctaccgac ccattctcct tctgtttctc   60
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attgctgtgg ccaagcgctt gtgtgccgaa tgccttgctt ctgatccgc tccgtgtaac   180
ctaagtgcgc tgcaggcaaa gccaggcca cggtgcgctc actactgatg ttcacgatgc   240
cacacagtca cacacctaata tcaattctca gtcggagcaa cacataccaa ccttgacctt   300
atcctcaage tccagggcag cctggccgag cagcccctgc tcctcctgg agaccctgt   360
cacctcccga gctcctcctg gagacccctg tcacctctg accaaccttt cccaggcgcg   420
caccgatcac cgagcagccg tgcgtgtatc tcaaggaact aaataagatg acgctactcc   480
tcatagca                                     488

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<210> 376

<211> 485

<212> DNA

<213> Homo sapiens

<400> 376

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gacttgccca gatcttgggt gtatctggg gacttttact ttgtgtttg atgcttaaac   60
ttcaaaatc tctgtattca aatttgattg tggcgaatct acttcaaaaa gaaaaataa   120
tcaaactttg tggatattaa atggaagggt tgcgttttg atctagtgt ttccagtgga   180
gcagttttat gaaatatgtt ctataagatg tacattttt cattgtaaca tagaaattgt   240
aaataattga ttaaagtgtt gcattttgat gaatttttc tagccatttt taaagagaaa   300
actaggaatt gagtattttg tgtacgggtat gtttccatcc tcctccctc tcctcctccc   360
ctcctctctc tctcttcta cctatttaata ttcatgtgt catgagggtt ttggatttgc   420
caatgatctg ctggacatca tgcccatgt catagagaat aaagctgatg attgtaccag   480
tctta                                     485

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<210> 377

<211> 569

<212> DNA

<213> Homo sapiens

<400> 377

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ggaacctgg acacagtttc tctcagtggg actattccag ttcaaatgct ttggaaatt   60
ggtttggaca aactaaagaa agattatata agtttttca taggtcagga acttgcact   120
ttgaatcatt tggaatactt cattgtccca tcagtagata tacaagaaca ggtttatcgt   180
gtccaaaaac tccaccatata ttagaataa ttagtcaagt gcatgccttt cattaaatct   240
caacatgaac tcctcttttc ttaacacag atctgcataa agtattacaa acaaaatcct   300
cttgatgagc aacacatttt tcagctgcca gtcagaccaa ctgctgtaaa gaacttatat   360
caaagtgaga agccacagaa atggagagtg gaaatatata gtggtcaaaa gaagattaag   420
acagtttggc aactgagtga cagctcacc ataggccatc tgaatttca caaacctgat   480
tttcggaat taacactaag cggtagcctg gaagaaagga tattctttac taacatggtt   540
acctgcagcc aggtgcattt caagtgaag                                     569

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<210> 378

<211> 336

<212> DNA

<213> Homo sapiens

<400> 378

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tcctggttcc ctgagggtcc tcagggtgga ggacagggtt ggcccagaaa gactagccag   60
aggcctgatg gtcccagggt gctctggata tactttggat atggatttaa atggtctcta   120
agagccgggg gtagggggca ggaaaagtgg gttgtctttg cccctcaaag tccacctacc   180

```

tagaaaccaa gccacggtc ttggccgtga ccctgataat aaatgggctc tctcagaggc 240
 gccagcccct cctcctccag ccggaggcgt catctctctt ctgtaccact agagggagct 300
 ctgatgcagc tggagagcag cgctcaagge tctcgc 336

<210> 379

<211> 525

<212> DNA

<213> Homo sapiens

<400> 379

agaccatcca acggcgacta aatgagattg aggctgcctt gagggagcta gaggccgagg 60
 gcgtgaagct ggagctggcc ttgaggcgcc agagcagttc cccagaacag caaaagaaac 120
 tatgggtagg acagctgcta cagctcgttg acaagaaaaa cagcctgggtg gctgaggagg 180
 ccgagctcat gatcacgggtg caggaattga atctggagga gaaacagtgg cagctggacc 240
 aggagctacg aggctacatg aaccgggaag aaaacctaaa gacagctgct gatcggcagg 300
 ctgaggacca ggtcctgagg aagctgggtg atttggtaaa ccagagagat gccctcatcc 360
 gcttcaggga ggagcgcagg ctcagcgagc tggccttggg gacaggggcc cagggctaga 420
 cgagggtggg ccgtctgctt tcgttccac aaagaaagca cctcaccca gcacagtgcc 480
 accctgttc atctgggctg cctggcagag agccttgctg ttac 525

<210> 380

<211> 525

<212> DNA

<213> Homo sapiens

<400> 380

ccgggtgtgg ccacgagtcg ggttgactg ctgtgatcca tctcatctc cttaaagatgc 60
 atctgactt atctccacac ttgcactg aagaatgcaa cgtcttgatt aacttgctta 120
 aggaatgtca caaaaatcac aacattctga aatttttgg ttattgtaat gatgttgatc 180
 gggagttgag aaaatgcctg aagaatgagt acgtagaaaa caggaccaag agcagggagc 240
 atggcattgc aatgcgaaag aaactttta atctccaga ggaatccgaa aaataaattg 300
 tattttcact cgatgccttg gctgagagaa gacctaaaga ctctgggttg atacctgaaa 360
 gaatcctgtc ttatttggtc tccataatcc ttgaaatgga aagtgcctg tgagagattg 420
 aacctggag aaatatgaaa accctggatt ctgagtattt gttgggcagg gcgtttagta 480
 ctgtcctccc ttaccagca aacctgactt caccatgttt attcc 525

<210> 381

<211> 520

<212> DNA

<213> Homo sapiens

<400> 381

aaggatctta actgtgttcg cattttttat ccaagcactt agaaaaccta caatcctaatt 60
 ttgatgtcc attgtaaga ggtgggtgata gatactattt tttttcata ttgtatagcg 120
 gttattagaa aagttgggga tttcttgat ctttattgct gcttaccatt gaaacttaac 180
 ccagctgtgt tcccaactc tgtctgcgc acgaacagt atctgtttga ggcataatct 240
 taagtggcca cacacaatgt ttctcttat gttatctggc agtaactgta actgaatta 300
 cattagcaca ttctgcttag ctaaaattgt taaaataaac ttaataaac ccatgtagcc 360
 ctctcatttg attgacagta ttttagttat ttttggcatt cttaaagctg ggcaatgtaa 420
 tgatcagatc ttgtttgtc tgaacaggta tttttatata tgctttttgt aaacaaaaaa 480
 cttttaaatt tcttcaggtt tttaacatg cttaccactg 520

<210> 382

<211> 261

<212> DNA

<213> Homo sapiens

<400> 382

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actcatctgg cttcagcaga ttgccaccaa gaggatacag gtggtcaggt cctggctggc   60
tttgtctttg ggcctgggca ggcttaggat ttgactttct ttgaagtacc tgatgctgat   120
tgattccact aatagtagga agcaagagac ttaactatga gggacgttat gtgaatctta   180
agtcttacca gtcttgcac tagtacatta aatttggatg ttttgaagc aaattcatac   240
gatcgtgagt gatttctcca a                                     261
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<210> 383

<211> 424

<212> DNA

<213> Homo sapiens

<400> 383

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caacacagac tacaggttcc gcgtatgtgc gtgtcgtcgc tgtttagaca cctctcagga   60
gctaagcggg gccttcagcc cctctgcggc tttgtatta caacgaagtg aggtcatgct   120
tacaggggac atggggagct tagatgatcc caaatgaag agcatgatgc ctactgatga   180
acagtttgca gccatcattg tgcctggctt tgcaactttg tccattttat ttgcctttat   240
attacgtac ttctaatga agtaaaccce aaaaactag aggtatgaat taatgctaca   300
cattttaata cacacattta ttcagatact ccccttttta aagccctttt gttttttgat   360
ttatatactc tgttttacag atttagctag aaaaaaatg tcagtgtttt ggtgcacctt   420
tttg                                     424
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<210> 384

<211> 460

<212> DNA

<213> Homo sapiens

<400> 384

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gcagcactct taacttacga tctcttgaca tacggtttct ggctgagagg cctggcccgc   60
taaggtgaaa aggggtgtgg caaaggagcc tactccaaga atggaggctg taggaatata   120
acctcccacc ctgcaaaggg aatctcttgc ctgtccatc tcataggcta agtcagctga   180
atcccgatag tactaggtec ccttccctcc gcacccctgc agctggaaaa ggctgtggc   240
ccagaggctt ctcaaaggg aggggtgacat gctggctttt gtgcccaagc tcaccagccc   300
tgcgccacct cactgcagta gtgcaccatc tcaactgcagt agcacgccct cctggggcct   360
ctggcctgtg gtaaatggag gtgacggcac tccatgtgc tgactcccc catccctgcc   420
acgctgtggc cctgcctggc tagtcctgc ctgaataaag                                     460
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<210> 385

<211> 434

<212> DNA

<213> Homo sapiens

<400> 385

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ttgttttcca gaaccagat cctctgatg gttttgtcct catccctgac ctcaagtga   60
accaacagca gctcgatgac ttgtacttga tcgccatctg ccatcgccgg ggcacagat   120
ccctacgcga ccttactccg gagcacttgc cgtgtctcag gaacatcctc caccaggggc   180
aggaggccat cctgcagcgc taccggatga agggagacca tctgcgagta tacctgcact   240
acctgccctc ctactaccac ctgcatgtgc acttcaccgc cctgggcttc gaggcccccg   300
gtcaggcgt ggagcggggc cacctgtctg ctgagggtgat cgagaacttg gagtgtgacc   360
ctaggcacta ccagcagcgc acgtcacct tcgccctcag ggctgacgac cccctgctca   420
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agctcttgca ggag

434

<210> 386

<211> 416

<212> DNA

<213> Homo sapiens

<400> 386

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 ctgccccaga tcataccccc ttctgcctg taacccttac cggctccata tgggggtacaa 120
 aggtctggcc tctcaccccc aacttgggaa accctctggg gccatcccag ctccagagcc 180
 ccttgtaggg tcatgagac ctcatgtgg ccacattaca gccagtgcc tctccctgac 240
 aagcctgtac ccagccggct cagcccacag cactgtccta tgaaccttc tgcagccat 300
 tctccacctc agtatctgct ttgggggaac ccaacctgcg acagtgttc tgtgtgttt 360
 cagtctgca gggttgaact ctgactttgg agactttcc agttatctcg tggaat 416

<210> 387

<211> 477

<212> DNA

<213> Homo sapiens

<400> 387

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 tgaacagtag taatattcta tcatagagta ttagcccttg caagtttca gggcgtcttt 180
 tccgacttca gttttgtga taaagaatgt gaacagttgt tagatgttct cagtgttca 240
 actttaaacc aaatttctcg tgatgttca ttcaaaaac ctgagtgtg ctgactgaaa 300
 aatacagagag aaaagagagt gggttccgtt tgcagctaca cagctgtgtg catcgacgtt 360
 ctctgggggt gtgtgccaag cgaaccacag gggtgaattg gattcttgaa gagaccaaag 420
 cctgtaactg tccagcttct aattcaaaa cgggtccatt agggcttctg tgtgtta 477

<210> 388

<211> 548

<212> DNA

<213> Homo sapiens

<400> 388

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 tgaatccatc tgaccagctg ctggtatctg ccaggactgg cagttctgat ttagtagga 120
 gagagccgct gataggtag gtctcatttg gagtgttggg ggaaaggaaa ctgaaggtaa 180
 ttgaatagaa tacgcctgca ttaccagcc ccagcaacac aaagaatttt taatcacacg 240
 gatcctaaat tcacaaatgt taacatggat aagtatcat ggtgtgcgag tggtaattg 300
 agtagtacag tggaaactgt taaatgcata acctaatatt cctgggactg ccatatttc 360
 tttaactgg aaattttat gtgagtttc ctttgggtgc atggaactgt ggttgccaag 420
 gtatttaaaa gggctttcct gcctccttct ctttgattta ttaattga ttgggctat 480
 aaaatatcat tttcaggtt tattctttaa gcagggttag ttaaacgacc tccactgaac 540
 tgggtttg 548

<210> 389

<211> 492

<212> DNA

<213> Homo sapiens

<400> 389

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 aatatgctct gggctggaga aatgaaatcc tcaagccatc aggatttgc attaagtgg 120
 cttgacaact gggccaccaa agaacttgaa cttcaccttt taggatttga gctgttctgg 180
 aacacattgc tgcactttgg aaagtcaaaa tcaagtcca gtggcgccct ttccatagag 240
 aatttgccea gctttgcttt aaaagatgic ttgttttta tatacacata atcaatagg 300
 ccaatctgct ctaaggcct tggctctggt gggattcctt caccaattac ttaattaaa 360
 aatggctgca actgtaagaa cccttgctg atatattgc aactatgctc ccatttaca 420
 atgtaccttc taatgctcag ttgccagggt ccaatgcaaa ggtggcgtgg actcccttg 480
 tgtgggtggg gt 492

<210> 390
 <211> 354
 <212> DNA
 <213> Homo sapiens
 <400> 390

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 cgctagattg ttacatagct ccatctctgt tggttttgct tacagcatat ggtaaccaag 120
 gttagatgcc agttaaaatt ccttagaaat tggatgagcc ttgagattgc ttcttaactg 180
 ggacatgaca tttttctagc tcttatcaag aataacaact tccacttttt tttaaactgc 240
 acttttgact tttttatgg tataaaaaca ataattata aacataaaag ctcatgtgt 300
 ttttagact ttgatatta ttgatactg tacaacttt attaaatcaa gatg 354

<210> 391
 <211> 537
 <212> DNA
 <213> Homo sapiens
 <400> 391

gagccctaga tgttctgga agttggcccc ctttatgaaa accacttccc acagccagtg 60
 ggaactgcca gaggaagatc tggcgtcaca tggctcccag gaaagtgtg tgcctatcc 120
 ccaatgatac catctgattc cccgatgcct gtgcctgttc cacctggacg gtggccccct 180
 cagcctggca gcctctggac agagaggaag gaaggattgg aaaagtcccc gcagcacagc 240
 gacggtggga agatgcctta cgtctgatct tgatgggggc actggcctgg agcctgggcc 300
 cacctgcttc tgggggggtg gggagcaggc cagatggagg tgggtgtgcc aggaagaaat 360
 ggagcgatga ctgactgtgg ggtgggcccc ggattccac atcttggtga agttgccct 420
 gggaaaggca gctgggggca gtggcgccag ttcccttcca tggctcccg gctggcaatg 480
 tggatgaagt gagttctgt ccaatgagca ggaagattct gagacattc gcctgag 537

<210> 392
 <211> 258
 <212> DNA
 <213> Homo sapiens
 <400> 392

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 agggggtggc agccccgcgc cgctccgcc gtgccgccga ccacgatgtg ggctctgagc 120
 tgccccctga gggcgtgctg ggggcgctgc tgcgtgtgaa acgcctagag accccggcgc 180
 cccaggtgcc tgcacgccgc ctcttgccac cctgagcact gcccgatcc cgtgcacct 240
 gggaccaga agtgcccc 258

<210> 393
 <211> 513

<212> DNA

<213> Homo sapiens

<400> 393

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ttttacaaat cacagctgat agacagcgaa gccttcccca tagagaccgt gctccaactc   120
gggcctgggg cactgctcgc tgctcccagg aaggggggtgg cgtgacaggc aggaacctgc   180
gaagtccaga gtccaggggtg gagcgcacca gcctcagcca gagcagccac gacagccaca   240
gtgtgtgcac tcgatgatgc ggccctgcaa cggaggagga cagtgagacg atgccactgc   300
gccacgctcg ccctgcaca ctacatatg tggcaacctt cccacgaagg acctgccacc   360
atgcatata gggacacacc tcagaaacct ttccttgaca gctctggaca gggaaaattt   420
ggctccctca tgaaggtaga accagctgct gttgacaccg aggttacatc tgtatgtcta   480
tttataatat gttctgcaaa tccaacacac gtt                               513

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<210> 394

<211> 402

<212> DNA

<213> Homo sapiens

<400> 394

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gcacctcgga gttgcagctg tgacactcat aggttactcc caggagtgtg ctgagcagaa   60
ggcaagctct tgctggatga aacccctcca ggtgggggtg gggagacttg atattcacat   120
ccaacagttt gaaaaggag agctcaattc ccagcgtcac ccatggctt gtgtgcctg   180
ctacgcattg acttggatct ccaggagtcc cctgcacata ccttcccat cgtgtcagct   240
gtgtttctct tgattccgtg acacccggtt tattagtca aaagtgtgac acctttctg   300
ggcaaggaac agccccttta aggagcaaat cacttctgtc acagttatta tgtaatatg   360
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<210> 395

<211> 518

<212> DNA

<213> Homo sapiens

<400> 395

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agatcgagca ggtgaacgag cgggtcctga acaggctcca tcaggtcag aggataactc   120
ggaggctgca gcaggaacgg aggttctcta tgagagtgtg ggactcctac ggggatgact   180
accgggccag ccagttcacc attgtgtgtg aggatgaggg cagccagggc acggatgcc   240
ccacccagg caatgcggag aatgagcctc cagagaaaga gacactgtcc ccgccagaa   300
ggactcctgc accccagaa cccggcagcc cagccccgg tgagggggccc agtgggcgga   360
agaggcgggc agtgccacgg gatggacgcc gagcaggaaa tgcgtgact ccagagctgg   420
ccccggtgca gattaagggt gaggaagact ttggcttga agcagatgag gccttgatt   480
ccagttgggt ttctcgggtt ccagacaaac tgctgccc                               518

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<210> 396

<211> 444

<212> DNA

<213> Homo sapiens

<400> 396

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cgactccga aggtcaccgg gagcgggttc tcagcctctc ccaagccctg gctactgagg   60
cgtcgcagtg gcacagaatg atgacaggtg gaaatttga ctccaggga gacctcttc   120
ccggtgtgcc gctgctctc tcggacccca cgcgccagga gacctctcc cccagatctc   180
ccccggtgga taattcgggt tccacggggt ttctcgcgc agggagtggg cgtggaggag   240

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gtccacccc ctggggggccc gcgtgggatg ccgggatcgc cctccggtc ctgccacaag 300
 acgagggggc atggcctctg cgagtcactc tgctacaatc cagcttgtaa tccgccc aaa 360
 agcggcagcc aatcggagcg cgaggacgtg gtctggaggt accgccgaag atctgggacc 420
 actcagggca tcagggggcg tgggt 444

<210> 397

<211> 414

<212> DNA

<213> Homo sapiens

<400> 397

ggctctctgt gtgagtcatt ggagctatga aggggaaggg gtcgtatcac ttgtctctc 60
 ctacccccac tgcctcgagt gtcgggcagc gatgtacata tggaggtggg gtggacaggg 120
 tgctgtgccc ctfcagaggg agtgcagggc ttgggtggg cctagtctg ctctagggc 180
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 gtgggtgggg cctccactt ggccccgggg ttcagtggta tttatactt gccttcttc 300
 tgtacagggc tgggaaaggc tgtgtgaggg gagagaaggg agaggggtggg cctgctgtgg 360
 acaatggcat actctcttc agccctagga ggagggtcc taacagtga actt 414

<210> 398

<211> 480

<212> DNA

<213> Homo sapiens

<400> 398

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 gtgggaactt ccacatcctc tggcctctg gcagttccca gggactgtt tcacctctgc 120
 tgtctctggg gtcagctgt gtcacacagc tgcctcctag catgtggcca ggggtgcagg 180
 gtggcggggg gtcagcagca tgccttggg caggccctgg gcacctgtc tccctggtc 240
 tcaactgtga cctgggctgg tccagcctg gattggcctc atccaggatc ttgggtacc 300
 ccacgtgcc ccatcttgc tgcgttcca gttctggta agggccttgg gggctggccc 360
 cccaccaggc ctctagagc agcaccagtc tcagggcctt gggaccagct gccctactc 420
 ccaggttgt agccaggaga agggggcctc acagagctga tggccaata aggggggtgt 480

<210> 399

<211> 533

<212> DNA

<213> Homo sapiens

<400> 399

aggtgaagcg aagccactct tacctctccc ttccctccc acctgcccc tgcgtaggca 60
 cccagacttg gagagaccg tctgtgtta atactccat cctcttctt cccaagagc 120
 agatcccaag gcatttactc ctgggtctg tctcgttta tctgtgccc ctccagcgc 180
 tgagagcctc cctggctgt cagcagcact gtgtccagg ctctgtctg aacaccgcag 240
 cccctcttc gctccttcca gagctcagca tgcacagca aggactgccg cattggtgat 300
 ggaggggccag ctgaggggaa gttgctggg agtttcttt tctccattc tagcatatgg 360
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 gatgattcta attgttaga attctaattg ttgaaatcc ttcttataa tgaatgaatt 480
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<210> 400

<211> 509

<212> DNA

<213> Homo sapiens

<400> 400

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cgctttgagc tgcgcgagga cgggcgcccc gagctgcccc cgcaggccca cggctcggc   60
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gacttcgtaa ttcacgggat catccatggg gtcacccatg acgtggagct gcaggagtct  180
gtcatcactg tggtgccgc ccgtgtcctc cgccagacac cgcgctgtt ccaggcgggg  240
cgatccgggg accaggggct gacctccatt cgtacccac tgcgtgtgg cgtccaccg  300
ggcccaggca ccttctctt catgggctgg agccgcttg gggaggcccg gctgggctgt  360
gccccacgat tccaggagtt ccgccgtgcc tacgaggctg cccgtgctgc ccacctccac  420
ccctgcgagg tggcgtgca ctgaggggct ggggtgctgg gaggggctgg taggaggag  480
ggtgggcca ctgcttga ggtgatggg                               509

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<210> 401

<211> 481

<212> DNA

<213> Homo sapiens

<400> 401

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cagtggcttc cagcagagtt gacctgggat ttctgtcatg ggtgtccctc tgtactcaga   60
atgggttcag gccaaagtcgg tgaagatgga tgttgcaaa ataggaggat accctcattt  120
gctgaatggg ggacctgctc tgagcctgcc caggggccag gcctgtcca ggttaaactg  180
gacggaaggc ccaggtctca gtttcttca accaggagag gccgctgcct agagcccctc  240
cccaccttt cctggatggg tgaggcaagc caggagagca agcagtgtt tctcacggg  300
aggaggactg agcgactggg aaaactcggc tctacatctc accagaacg gcttttagaa  360
acaccacagc tggagagtcc tggctgagcc ttgggagttt cagctcttg gcggggtgcc  420
caggtgccat gcgatcagcg aagcctgcga gttggcagga ctctgaggtt tctgcagac  480
c                               481

```

<210> 402

<211> 481

<212> DNA

<213> Homo sapiens

<400> 402

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cagtggcttc cagcagagtt gacctgggat ttctgtcatg ggtgtccctc tgtactcaga   60
atgggttcag gccaaagtcgg tgaagatgga tgttgcaaa ataggaggat accctcattt  120
gctgaatggg ggacctgctc tgagcctgcc caggggccag gcctgtcca ggttaaactg  180
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cccaccttt cctggatggg tgaggcaagc caggagagca agcagtgtt tctcacggg  300
aggaggactg agcgactggg aaaactcggc tctacatctc accagaacg gcttttagaa  360
acaccacagc tggagagtcc tggctgagcc ttgggagttt cagctcttg gcggggtgcc  420
caggtgccat gcgatcagcg aagcctgcga gttggcagga ctctgaggtt tctgcagac  480
c                               481

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<210> 403

<211> 534

<212> DNA

<213> Homo sapiens

<400> 403

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agcatactat gcagcgttgg gaactaggcc acctattaat atggaagaac tggatgaatc   60
ataccagaaa gtaattgaac tcttctctgt atgactaat gaagacccta aagatcgtcc  120
ttctgtgca cacattgtg aagctctgga aacagatgtc tagtgatcat ctgagtgaa  180

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gtgtggcttg cgtaaataac tgtttattcc aaaatattta catagtact atcagtagtt 240
 attagactct aaaattggca tatttgagga ccatagtctt ttgttaacat atggataact 300
 atttctaata tgaatatgc ttatattggc tataagcact tggaaftgta ctgggttttc 360
 tgtaaagtt tagaaactag ctacataagt actttgatac tgcctatgct gacttaaac 420
 actagcagta aaacgctgta aactgtaaca ttaaattgaa tgaccattac tttattaat 480
 gatctttctt aaatattcta tattttaatg gatctactga cattagcact ttgt 534

<210> 404

<211> 213

<212> DNA

<213> Homo sapiens

<400> 404

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 ccgaggactc ggacgtgttc gaggaggaca cgcacctgtg agcgcagcga ggcgcaggcc 180
 gagtgggccc ccaggacca gcgaggtgga ccc 213

<210> 405

<211> 406

<212> DNA

<213> Homo sapiens

<400> 405

ccccagtgtc cgagctggat cgtgcggacg cctggctcct ccgaaaagcg cacgagacag 60
 ccttcctctc ctggttccgc aatggcctcc tggcatcggg catcggggtc atctcctca 120
 tgcagagtga catgggtcgg gaagcagcat atggcttctt cctgctgggc ggctgtgctg 180
 tgggtgtggg cagcgcctcg tacgccgtgg gcctggcggc gctgcgagga ccatgcagc 240
 tgacgtggg gggcgcgccc gtggcgcgcg gcgccgtgct ggccgccagc ctgctctggg 300
 cgtgcgccgt gggcctctac atggggcagc tggagctgga cgtggagctg gtgcccagg 360
 acgacgggac ggcctccgcg gaaggccctg atgaggcggg tcggcc 406

<210> 406

<211> 432

<212> DNA

<213> Homo sapiens

<400> 406

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 atatccgtgt gtcttgtctg tggccaccag gcacagggtt ggcttccggt cagtgtccc 120
 aactgtgctg ggaggtgaca acagagcaaa gcagcgcagg ggtcagggag gtggagacac 180
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 aatcttttac cacttctggc ctggctccag aactttgttc tagattcctt aaaagtcggt 360
 agctgatgtc aaactcaatt gagcagtagc ttgtatccct tggctgggg gtcgaaggaa 420
 gatggcgtg tt 432

<210> 407

<211> 472

<212> DNA

<213> Homo sapiens

<400> 407

gggaggaccg gctaatactg tgaattcttg tgtcatcggt tggggtttta ctgatacca 60

ctagctataa gcctaatactc ataatgtatt tctttttga aactgatttg tttagcattt 120
 tgttttcaga agagccattc tttattaagt ttccatagaa aataatgtta aggttagattt 180
 agtttgaatg tttttcata tgaaaaagag gcttttattc tttccatag tttagacatc 240
 actggcgctc tctgagtttt atgagacagg aaactaagtt tactatctgt aaatgtaaac 300
 atatgtccat taagaaacat gtagtttttt tttagaatgt aataaccag tggcttactg 360
 ttttcttaa tctcttttaa aaaaacttta gaagaatctt ttaggaacta atatctcttg 420
 ttctgaagaa acatttatct gacgttcagc agttcctaca gttttacttc ag 472

<210> 408

<211> 519

<212> DNA

<213> Homo sapiens

<400> 408

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 aggggaagctg agccccaccc gctgtgggag taccatgcc gcagcctctc cgagccctgg 180
 cagatctga cctttgactt ccagcagccg gtgcccctgc agcccctgtg tgccgagggc 240
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 ctgacccggg agtgcacgt cagcactggc ctctggagc ctgcagaccc cgaggggggc 360
 tgctgctga acccccactg caagcaggcc gtctacttct tcagccctgc ccagatccc 420
 agagcactgc tgggtggccc acggactgtc agctatgcag tggagttca ccccgacaca 480
 ggcgacatca tcatggagtt caggcatgca gataccca 519

<210> 409

<211> 469

<212> DNA

<213> Homo sapiens

<400> 409

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 ttgacctca cagttcacat tcagctcagc agagcaagac cccagagatg cttagagaca 120
 ggacacctgg ccatcaaac cagtttgcc cagcctgggt gggtagctt gtgggagcca 180
 cttaacagct ctgggtccct gttttacat cctgggagca aggccctgca gctccacgag 240
 acctttacc cgggaagaag ccgccacca tgaaagcatt tctgaagccc ctttctaaga 300
 caaggctcag catcttgata ttttgacag attctccca agtctggctc tgggaggtat 360
 gtacccatct caaatgttc caagataat tcatccttca ggaaatggaa atgaacttgc 420
 ttactaatgt gtgattccta gtttagcca ccgtagtgc tgaggccta 469

<210> 410

<211> 495

<212> DNA

<213> Homo sapiens

<400> 410

gtccagtccc agaccaatgg agggcccagc cccacacca agggccccc gccgcggagc 60
 ccccgcccc ggccgcagcg cagctgctct ctggacctgg gagatgccgg gtgctacggt 120
 tatgccaggc gcctgggagg agcttgggcc cgacggagcc actctgtgca tggggggctg 180
 ctgggggcag ggtgccgggg ggtaggaggc agcgcagcagg ggctggaaga gagtgtggtg 240
 tgatggacgg gcagcttct gtgtgctcca agggatgagc ctgctggggc agagggccc 300
 gggccgccc ctggcctggg agtcctccc tggttttat tctcagtacc tcaggctccc 360
 ctgtgtactt ggaggggcag ggagccctt cctcggttct ggctccaga ccagggttaag 420
 ggaggcccc tccaacaggt gctcacagcc accgaggcag gggctgcagc caccactgg 480

gagtcttgtt ttat

495

<210> 411

<211> 349

<212> DNA

<213> Homo sapiens

<400> 411

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aaacttgcgt ttgagccgtt gagctaattc tgcaatttc taccaaacag agcgctgggtg   60
gccccgggagc agggctgtga cattggctgg tggagcacc ttctgtgtt ctcccttgt   120
tcacgcgcg cgtggtgag atcactgttc caagcagggg gacggctcgc gataggacaa   180
agagagcagg acctccagac tctggggacc ctgcagacct tgacaattg cctgactcat   240
tctgacctc ttgtcattt ggctgaagg ctacaaattc agggtcagct gtatgcacta   300
agtcaaataa tgaatttct cctcccttc gcaaccgacc aaaattttg   349

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<210> 412

<211> 562

<212> DNA

<213> Homo sapiens

<400> 412

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tcccggctac atgggagcgc ggtgtgagtt cccagtgcac cccgacggcg caagcgcctt   60
gcccggggcc cggccgggccc tcaggcccgg ggaccctcag cgctacctt tgcctccggc   120
tctgggactg ctctggccg cgggcgtggc cggcgtcgc ctcttctgg tccacgtgcg   180
ccgccgtggc cactcccagg atgtgggtc tgccttctg gctgggacct cggagccgtc   240
agtcacgca ctccggatg cactcaaca cctaaggacg caggagggtt ccggggatgg   300
tccgagctcg tccgtagatt ggaatcgccc tgaagatga gacctcaag ggatttatgt   360
catatctgct ccttcactc acgtcggga ggtagcgacg cccctttcc ccccgctaca   420
cactgggcgc gctgggcaga ggcagacct gcttttccc tacccttct cgattctgtc   480
cgtgaaatga attgggtaga gtctctggaa ggtttaagc ccatttcag ttctaactta   540
cttcatcct atttgcac cc   562

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<210> 413

<211> 458

<212> DNA

<213> Homo sapiens

<400> 413

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aacaatcctg aaggcctggg atttttgtc tgaatatcaa ctgcagactg taaattccg   60
acagagaaaag gaatctgtag ttcagcactt gatccatctg tgtgaggaaa agcgtgcaag   120
tatcagtgat gctgccctgt tagacatcat ttatatgcaa ttcatcagc accagaaagt   180
ttgggatgtt tttagatga gtaaggacc aggtgaagat gttgacctt ttgatatgaa   240
acaatttaaa aattcgttca agaaaattct tcagagagca taaaaaatg tgacagtcag   300
cttcagagaa actgaggaga atgcagtctg gattcgaatt gcctggggaa cacagtacac   360
aaagccaaac cagtacaaac ctacctacgt ggtgtactac tcccagactc cgtacgcctt   420
cacgtcctcc tccatgctga ggcgaatac accgcttc   458

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<210> 414

<211> 560

<212> DNA

<213> Homo sapiens

<400> 414

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tcagcgtgc tttgtggag atcaaaacca ccaagttcac aaagaagggt cagattgacc 120
 cctacctgga agattctctg tgcataatct gcagttctca gcctgtgctc ttcttctgtc 180
 gagatcaggt ctgcttcaaa tacttctgcc ggagctgctg gcactggcgg cacagcatgg 240
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 gcaccacct gccactggcg accagggagc tggcttcca aggacaaggg aaaattgtag 420
 tcacctttgc acttgcgtgaa tctgtctttg ttctgcact aattaatgca cattgagttt 480
 tgtcaggttt tgttttcagg ggggtgtacca agggcaagga cctctgggt taccctcaa 540
 gcgactctgt agttttcca 560

<210> 415

<211> 443

<212> DNA

<213> Homo sapiens

<400> 415

agaagtacaa catctcttc cacaagcggg acggcaccaa gatcatcaaa cgccagcggg 60
 agaagccac ccaggaggcc ctgcgcaaag gggacgatgt caaatcgag gagtttggg 120
 cctatctcat cgacccacac acccagcggg aggagccttt caacgaacac tggcaaaccg 180
 tctactcact ctgccatccc tgccacatcc actatgacct cgtgggcaag tacgagacac 240
 tggaagagga ttctaattac gtctgcagc tggcaggagt gggcagctac ctgaagtcc 300
 ccacctatgc aaagtctacg agaactactg atgaaatgac cacagaattc ttccagaaca 360
 tcagctcaga gcaccaaagc cagctgtacg aagtctacaa actcgatttt ttaatgttca 420
 attactcagt gccaagctac ctg 443

<210> 416

<211> 357

<212> DNA

<213> Homo sapiens

<400> 416

gatcttcttg gccatgaaaa ccatgagata cagccgtatg tgaatggagc tctgtacagc 60
 atcctttctg ttccatccat tcgtgaggaa gcaagagcaa tgggaatgga agacatccta 120
 cgtgcttca tcaaagaagg caatgctgaa atgatccgc agatagaatt catcatcaag 180
 cagctaaatt ccgaagagct accagatggg gtcttgaat ctgatgatga tgaagatgaa 240
 gatgatgaag aggacatga catcatggaa gccgatctgg acaagacga actgatccag 300
 ccccagcttg gagaactctc aggagagaag ctctgacca cagagtacct ggggatc 357

<210> 417

<211> 487

<212> DNA

<213> Homo sapiens

<400> 417

aacttattga agagcgtgc caacaattcc ttgcagacaa acaacgtgaa ctagaagagt 60
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 aactcttaa agagcatgct acaacttac taggctatct ccctaaagga gtatttaaaa 180
 aagaggatga tattgatctg ctgggtgaag agttcaggaa agtatatcaa caaaggagtg 240
 aaatttgta agagaaatga tatcatcaa attgggttaa gcatagattt ttgtatgtt 300
 accactagat gtcagcataa cttttgttt acagctcagt ggcattaggt atccattgtc 360
 tgtttggatt ttgtaaatca tcactgaatt tcataactg taaacaatta tcagatacaa 420
 aattaattta atcaagctgt tatttttgta ctgataattt caaaatccga ttctacaac 480
 actacag 487

<210> 418

<211> 523

<212> DNA

<213> Homo sapiens

<400> 418

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gaatcggaca tgtccaaacc accgtgttac gaagaggcgg tgctgatggc agagccgccg   60
ccgcctata gcgaggtgct caccgacacg cgcggcctct accgcaagat cgtcacgccc   120
ttcctgagtc gccgcgacag cgcggagaag caggagcagc cgcctcccag ctacaagccg   180
ctcttctgg accggggcta cacctcggcg ctgcacctgc ccagcgcgcc tcggcccgcg   240
ccgcctgcc cagccctctg cctgcaggcc gaccgtggcc gccgggtctt cccagctgg   300
accgactcag agctcagcag ccgcgagccc ctggagcacg gagcttggcg tctgccggtc   360
tccatccctt tgctgggag gactacagcc gtatagaggg gcgccggcg ccccgggccc   420
caccggcgga ctctggcct gactgcgggg cttttaaat gcttcctgg actgcgggga   480
ggggcggggg gagggaggga ttcttatcc cgttgttac att                       523

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<210> 419

<211> 506

<212> DNA

<213> Homo sapiens

<400> 419

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taatacccaa ctgactaact aaacaaatat caactgttaa tactcaatga attttttgc   60
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acacagttta tctacattt atcacatttc ttaaagtgtt aagattctat ggctcatttc   180
tatgtatttt tctacttta caaaataacc tgaacagta tagattttgt aacacttaat   240
ttgagcagct tttttattac attgaattat ataaagtgca tgttaccta gaaaaattag   300
tatttgctgc ttactcttt tgcaaaacat ttgctgtaat gaatggattt gtatttccaa   360
tatgtatctt gactgcattt tgtaatatit actgctttat tctaattct gctttaaagt   420
actgaactgg gcatgaaaca taaaatatt aatccagaaa ctgtataaac tggatgttgc   480
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<210> 420

<211> 504

<212> DNA

<213> Homo sapiens

<400> 420

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actgcggcct ctgggatgga gagcaataca tcatcatctt tggagaattt agcgacggcg   60
cctgtgaacc agatccaaga acaatttct gataattgtg tggatgttt ctcaaaaaca   120
tctgttctt actgtacaat ggcaaaaaag ctttccatg acatgaatgt taactataaa   180
gtggtggaac tggacctgct tgaatatgga aaccagtcc aagatgctct ttacaaaatg   240
actggtgaaa gaactgttcc aagaatattt gtcaatggta cttttattgg aggtgcaact   300
gacactcata ggcttcacaa agaaggaaaa ttgctccac tagttcatca gtgttattta   360
aaaaaaagta agaggaaaga attcagtga tgtttact aataagtttg ctagtacagt   420
gtcagttatt taaagtggta atgcccata atgtcttta aatgtttgag gatgttttaa   480
atacatgcat tgtcttcacg aaga                                     504

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<210> 421

<211> 472

<212> DNA

<213> Homo sapiens

<400> 421

gactttgatt ggtagcatcc acgccctccc tgggtcata agccagacca tcaggcagca 60
gcagagagat ttcatlgagg ctcatatgga gagctacgac aagcacgtca cttacaatgc 120
tgagcgggtcc cggctcctgt ccaggaggcg gcggtcctct tccacagcac caccaacttc 180
atcagagagt agctagaaga gaataagtta accacaaaat aagacttttt gccatcatat 240
ggtcaatatt ttagctttta ttgtaaagcc cctatgggtc taatcagcgt tatccgggtt 300
ctgatgtcag aatcctggga acctgaacac taagtttttag gccaaaatga gtgaaaactc 360
ttttttttc ttccagatgc acagggaatg cacctattat tgctatatag attgttcctc 420
ctgtaatttc actaactttt tattcatgca cttcaaaca actttactac ta 472

<210> 422

<211> 475

<212> DNA

<213> Homo sapiens

<400> 422

atatggccat cgtgtcagca gagagagtct ctgtacacag ccccgtagaac cctgaggagt 60
ggagtcatac acgaagggcg tgtggccatc gtgtcagcag agagagtctc tgtacacagc 120
cccgtagaac ctgaggagtg gagtcatacg cgaaggggtg gtggccaggc tgcagagctg 180
cgtgccgttt gtgtccgagc atcacgtgtg gctccagccc ttatttctgc cagtgtagac 240
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ggcctcattc tgtatcagtc cagtgtgttc ctgtcatagt ttgtgtctcc caggcaggcc 360
atggtagggg cctcgcaggg gccattgggg agcacagggc caggctgggg tgaggagagc 420
tcccctgttt tctgtttaat tgatgagcct gggaaaggag tgtgttctgc ctgcc 475

<210> 423

<211> 485

<212> DNA

<213> Homo sapiens

<400> 423

actcacatcc agtccgtttg taaaatacac ccaggatgag acctgcacgc aagtggctca 60
cagcagcacg atttgtgaca gcccaggcg gagaacaccg aacaccagc gaaggtgagg 120
ggatcagcac ggcggggcca cccacgcacc cagcgctgg aatgagactc agccacaagg 180
agggtcgaag ctctgaccca ggccacagt cggatgcacc ttgaggatgt cacgctcagt 240
gagagacacc agacacagaa gggtagctg tgatccact tctatgaaat gtccaggaca 300
gaccaatcca cagaatcagg gagaggattc gtgggtgccg ggactgggga gggggacctg 360
ggggtgacta ggtgacataa tggggacagg gctgccttct gggatgatg aatgttctgg 420
aatcagatgg gatggctgca cggcgtggtg aaggtactga acgccacctc actgtaagac 480
ggtag 485

<210> 424

<211> 538

<212> DNA

<213> Homo sapiens

<400> 424

ttgtggagaa cctggacagc ctgccccca aagttccaca gcgggaggcc tccttgggtc 60
ccccgggagc ctccctgtct cagaccggtc taagcaagcg gctggaaatg caccactcct 120
cttctacgg ggttgactat aagaggagct accccacgaa ctgctcagc agaagccacc 180
aggccaccac tctcaaaaga aacaacacta actcctcaa ttctctcac ctctccagaa 240
accagagctt tggcagggga gacaaccgc cgccggcccc gcagagggtg gactccatcc 300
agggtcacag ctccagcca tctggccagg ccgtgactgt ctgaggcag cccagcctca 360

acgcctacaa ctcactgaca aggtcggggc tgaagcgtac gccctcgcta aagccggacg 420
 taccceccaa accatccttt gctccccctt ccacatccat gaagcccaat gatgcgtgta 480
 cataatccca gggggagggg gtcaggtgtc gaaccagcag gcaaggcgag gtgcccgc 538

<210> 425

<211> 381

<212> DNA

<213> Homo sapiens

<400> 425

caaacggaac ttgccgctc gaggactgtc gggctacagc atgctggcca tagggattgg 60
 aaccctgac tacgggcact ggagcataat gaagtggaa cgtgagcgca ggcgcctaca 120
 aatcgaggac ttcgaggtc gcatcgcgct gttgccactg ttacaggcag aaaccgaccg 180
 gaggacctg cagatgctc gggagaacct ggaggaggag gccatcatca tgaaggacgt 240
 gcccactgg aaggtggggg agtctgtgtt ccacacaacc cgctgggtgc cccccttgat 300
 cggggagctg tacgggctgc gcaccacaga ggaggctctc catgccagcc acggcttcat 360
 gtggtacacg taggcctgt g 381

<210> 426

<211> 457

<212> DNA

<213> Homo sapiens

<400> 426

gaccaggagg aattcgtct tccagcagg gatgaagaac aagatctga tatttggcct 60
 cttgaagag acagccctgg ctgcttctt ttctactgc cctggaatgg gtgttctct 120
 taggatgtat cccctcaaac ctacctgtg gttctgtgcc ttccctact ctcttctcat 180
 cttcgtatat gacgaagta gaaaactcat catcaggcga cgccctggcg gctgggtgga 240
 gaaggaaacc tactattagc cccccgtcct gcacgccgtg gagcatcagg ccacacactc 300
 tgcacgcag acccaccccc tcttctgtga cttcagtcct ggagtttga actctaccct 360
 ggtaggaaaag caccgcagca tgtggggaag caagacgtcc tggaatgaag catgtagctc 420
 tatgggggga gggggagggg ctgcctgaaa accatcc 457

<210> 427

<211> 478

<212> DNA

<213> Homo sapiens

<400> 427

ttgccttta cgggggtcgg caggatgggg accctgcttt cctctacttg ctgtcagctc 60
 ctcgagaagc cccagccaca ggacctagcc ctcagcacc ccagaagatg gacggggaac 120
 ttggacgctt gttccccca tcattggggc taccceagg cccccagcca gctgctcca 180
 gcctgccag tccactccag cccagctggt cctgtcttc ctgcacctc atcaatgccc 240
 cagaccgcc ttgctgtgag atgtgtagca cccagaggcc ctgcacttg gacccccctg 300
 ctgcagctc cacctagcag ccaccagagg ttacaagggg agagtggccc ttcctcaca 360
 agtccgacat ctccaggccc ccaactgaact cggggacct ctactgactg cttgctggga 420
 cagtaccag ggttgggggg aaggccaca aatgaaacc attaaagacc ctaaagag 478

<210> 428

<211> 501

<212> DNA

<213> Homo sapiens

<400> 428

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 catgttggcc aggctagtct cgaactcctg acctcaggtg atccacctgc ctggcctcc 120
 caaagcactg ggattacaag catgagccac tgtgccccagc ctgttccact gacatttctt 180
 agacattcag caaaaccccc acctaacct cttttcttc ttgagggttg gtcctgtccc 240
 cacctccacc ctcccacccc ctggaagagg aaggggcccg gcacagtgg ctagtccaaa 300
 taaaatatgg gcttggggat ggaatgggtg gtgtaagt cacagagtgt agttagatcc 360
 caactccat gacctctggc ttcaagtgtg ggtggggcag ggcagatgaa agggcttcag 420
 tgggaacctc tgagagcatt ttctgttcc ccctatcaac cgccccagt gataacatct 480
 gtgaagccag ccattactca a 501

<210> 429

<211> 474

<212> DNA

<213> Homo sapiens

<400> 429

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 tttatgagc ataacttct cagtctctg ctctcaaatt taggacagag ccgctaagga 120
 caaaacaatc cctcccgctg tttatgatgg cagcaggggc tggggagcct ctgagggaact 180
 ctttcattct cgagttgtct ggaagcctgg gtggcgctcat gagctgaagg atcatgcttt 240
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 agcctcaag gaatttggtt ttacaactg gaatatgctc ctgtgtgtgt taacagatca 420
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<210> 430

<211> 316

<212> DNA

<213> Homo sapiens

<400> 430

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 cttgggccga aggggtgctc tgcccgcgc gctagctgtg agctgagcaa agccctgggc 180
 tcacagcacc ccaaaagcct gtggcttcag tctgcgtct gcaccacca atcaaaagga 240
 tcgtttgtt ttgttttaa agaaagggtga gattggcttg gttctcatg agcacatttg 300
 atatagctct tttct 316

<210> 431

<211> 482

<212> DNA

<213> Homo sapiens

<400> 431

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 cattgttaat ctaagaataa aaacactgac ttaatacgg tttactaag ttcaacctt 180
 ctaattaggt aggcctctag gtattctgca gatcactgct ggtcttgata gccattaata 240
 tatgtttgta ttatgttatt ttcaactaa atcgcagttg gaaaaaaac atatttaata 300
 ttatgccctt ggatctgtta ctgcactact agcacttggt atgcaataga acacttcgcc 360
 tgtactgaaa gggccaagag taaatgcctt gtttgtttt ttgttttgt ttgttttgc 420
 ttttgttaa aacatgtcta tagagttggc agttaatgct gaattgtca aataccctt 480
 cc 482

<210> 432
 <211> 511
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (37)..(37)
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 <221> misc_feature
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 <221> misc_feature
 <222> (284)..(285)
 <223> n is a, c, g, or t
 <400> 432

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tgagttgctt tcaatgtgac aacactatga tgtcatttgg aaggatttgc caggacagac  180
tgattctgag tcttgggtgc cgtatgtgta tgcggcagtg ttgtcaggcg atcttgtttg  240
aagctctatg ttgccataat taccatcaag tacacactgt tggnncaaaa ggctaacacc  300
tgactttaga aaatgctgat ttgagaacaa aaggaaaggc cttttttcac tgcttaaagt  360
ggggtcactt tgataccttt gcggtcatgt ctgtgtctga tgagtgtaga atctctggat  420
gtgcactgtc agtcattgtt ccaccaggcc tcgaatatca tatgggaaat gtcatagtta  480
aaaacgtaca gccaggcccg tgtgctgtta a                               511
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<210> 433
 <211> 445
 <212> DNA
 <213> Homo sapiens
 <400> 433

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ggcgctgccc atctcggctc ggcttctgtg agagcctccg ccttggcttt ctccctgtct  180
ggtttcagtg gctcagcttg gtgtacaca gctagaatag atatatttag agagagagat  240
atttttaaga caaagccac aattagctgt cctttaacac cgcagaacct cctcccagaa  300
gaagagcgat cctcggacg gtccgggcgg gcaccctcag cggggctctt tgcagaagca  360
gcaccgtga ctgtgggccc ggccctcaga tgtgtacata tacggctatt tcctatttta  420
ctgttcttca gatttagtac ttgta                               445
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<210> 434
 <211> 443
 <212> DNA
 <213> Homo sapiens
 <400> 434

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 cttgtaaggt gttcagtaga gctaaataaa tgtaatagcc aaacccact ctgttggtag 120
 caattggcag ccttatttca gtttatttt tcttctgttt tcttcttttc ttttttaaa 180
 cagtaaacct taacagatgc gttcagcaga ctggtttga gtgaatttc atttcttcc 240
 ttatcacccc cttgtgttaa aaagcccagc acttgaattg ttattacttt aaatgttctg 300
 tatttgatc tgtttttatt agccaattag tgggatttta tgccagtgt taaaatgagc 360
 attgatgtac ccatttttta aaaaagcaag cacagccttt gcccaaaact gtcactctaa 420
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<210> 435
 <211> 536
 <212> DNA
 <213> Homo sapiens
 <400> 435

gacggcgtca aggtcgtggg acgtgacacg accgctgcgg cgtcagctca gccttgcaag 60
 accccaggcg cccgcgctgc acctgcgact gtcgccgccg ccgtcgcagt cggaccaact 120
 gctggcagaa tcttcgtccg cacggcccca gctggagtgt cacttgcggc cgcaagccgc 180
 cagggggcgc cgcagagcgc gtgcgcgcaa cggggaccac tgcgcgctc ggcccgggcg 240
 ttgtgcctt ctgcacacgg tccgcgcgtc gctggaagac ctgggctggg ccgattgggt 300
 gctgtcgcca cgggaggtgc aagtgacct gtgcatcggc gcgtgccga gccagttccg 360
 ggcggaacac atgcacgcgc agatcaagac gagcctgcac cgcctgaagc ccgacacggt 420
 gccagcgccc tgcgtcgtgc ccgccagcta caatcccatg gtgctcattc aaaagaccga 480
 caccgggggtg tcgtccaga cctatgatga cttgttagcc aaagactgcc actgca 536

<210> 436
 <211> 464
 <212> DNA
 <213> Homo sapiens
 <400> 436

tatgaacttg cgtgggctac tgctttagc ttgtgtggt ctcgaccgtt tgtggtagca 60
 gtatagaca tcatgtttca gaaacctgtt gaggttggct cattgtctt tcttttca 120
 caggtatgct ttactcagaa taattatatt caagtcagag tacacagtga agtggcctcc 180
 ctgcaggaga agcagcatat aaccaccaat gtcttcatt tcacgttcat gtcggaaaaa 240
 gaagtgccat tggttttccc aaaaacatat ggagagtcca tgtgtactt agatgggcag 300
 cggcatttca actccatgag tggcccagcg accttgagaa aggactacct tgtggagccc 360
 taagaacacc acatttgtt aaaactagca ctctaccac agtgacgtgg tatctgatga 420
 agacctgatc gagtgtattg attttagtat tgcttcgtgt cctc 464

<210> 437
 <211> 533
 <212> DNA
 <213> Homo sapiens
 <400> 437

gcgcagcatg gaggactttg tcaattgggt ggactcgtcc aagatcaagc ggcacgtgct 60

agagtacaat gaggagcgcg atgacttga tctggaagcc tagcggatct cccactttgc 120
 atggctgtct ttacagatg ggaaaactga ggcctgatgc tggagattct atgagggtgc 180
 tctcctcaag ggtatcagac ggtcgtaggt tcttaagaat ttgattcatc agtggcaggc 240
 catgcataga gccacgggag gtgcgtcctt gtttccagg aatgttctt agaacttgga 300
 ctactgatta ttaattgact gtgcctggg aaacagtggg aagtaactg gtgcagcact 360
 ggggtattgt tggactggtt caattcgtt aactcgaatt ctgtctctg gccgtggta 420
 agctgtgtac agatgatgga gagtttgcc tcaagtttt ataaactgag cgagactagt 480
 gttcaggatc tctcccttg ttaaatgtc aataaatgcc ccaactgctt tgt 533

<210> 438

<211> 502

<212> DNA

<213> Homo sapiens

<400> 438

cccaggacg acgacgagga cgaggaggac acggtgactc ggctggggccc cgacgacacg 60
 ctgccgggcc ccgagctgtc cgcagagccg gacggggccc tcaacgtcaa cgtcttcacg 120
 tcggcggagg agctggagcg ggcgacggg ctggaggagc gcgaacggat cctgcgggag 180
 atctggcgca ccgggcagcc ggacctgtg ggcacaggca cgtggggccc cagccccacg 240
 gccacgggca ccttggggcc catgcactat tactgatggg ccccggtcc cgctgcaagg 300
 cgctcggggt accggacctg cacatgagct cagagctacc ccacacctt ggactgctc 360
 ggccccaca gtcccgagt gctactgggc gtggaccgcc acccctgag aggtccctt 420
 cccagtcct gccagaagac ccggggggcg gggagggggc agcatgcagg gtcccactc 480
 cctctctggg gtcgatgaag ag 502

<210> 439

<211> 485

<212> DNA

<213> Homo sapiens

<400> 439

ctccccctt gaaactcaag cacagctgcg aggagggcag cgaggaggga cccctctctc 60
 atggtgtct ctttccccg ctatgtcata ggtagtgag gaagcgaagg aagtgaacgc 120
 tgaatgtac gcatttctga agagctcagc tgtcaccggg catagcctgg aagccccaag 180
 tctgttctga cttgccttg ctgtctcctt gaccgctc ctatgcatt gtccttgatg 240
 tccaggctgg gtcatttaa atagagatgc aatcaggaag gttgggggac ttgggactgt 300
 ggctgaattg agaccttct gatgtattca tgcagcacc tgagtcacag ccaggtgcc 360
 cggaaagcag cttctgcag aggcagtgt ttgcgattac tttaaagctc acctttttc 420
 ttccctctc tgttcgtgc tgcagcata atgatttgt tcttccta tgggatccat 480
 ctgtt 485

<210> 440

<211> 525

<212> DNA

<213> Homo sapiens

<400> 440

cagcctagcc ttcaagtgt gtgagcggcc tgagtggata cacgtggata gccggccctt 60
 tgcctccctg agcctgtact caggggctgc cctgggcctg ggcatgctt tgcactctc 120
 ctgctatgcc cagggtgcgc gggcacagct gggaaatggc cagaagatag cctgccttgt 180
 gtggccatg gggctgctg gccccctgga ctggctgggc caccctc agatcagcct 240
 cttctacatt ttcaatttc taaagtacac cctctggcca tgctagtcc tggccctgt 300
 gccctgggca gtgcacatgt tcagtccca ggaagcacc cccatccact cttctgact 360

tcttgtgtgc ctccctttcc ttccctccc acaaagccaa cactctgtga ccaccacact 420
 ccaggaggca gcccctccc ctccagccc ctaagtaggc cctcccctcc ctaaattctgc 480
 ttccgcacca cctggtctta gcccacaaaga tgggccttct ctctc 525

<210> 441
 <211> 403
 <212> DNA
 <213> Homo sapiens
 <400> 441

cgcaagcccc tgatgggagc agaaaattcg ggacagacca cgtagagggt ggctcccaag 60
 caggtgcgga cggcaccagg ccgccaagg catcgtgcc acctgagtc cagccgcca 120
 caaactgctg catgagtggc tgcaccaact gcgtgtgggt ggagtacgcg gacaggctgc 180
 tgcagcactt ccaggacggt ggggagcggg ccctggctgc cctggaggag cacgtggctg 240
 atgagaacct caaggccttc ctcaggatgg agatccggct gcacaccagg tgcggaggct 300
 gagccatccc tgctggactc cctaccgcag gacggagtc aggacgcagc cgcagcctcc 360
 ttccttcaca cccctcaca gactcctgt gtccaacggg aat 403

<210> 442
 <211> 346
 <212> DNA
 <213> Homo sapiens
 <400> 442

taggggggag atttgaccgg caggcttctg cggaggggctg cttctacaac gctgactacc 60
 tggcgggccc agcccggtg gcaggtgaac tggcaggcca ggaagaggag gaagccctgg 120
 aggggctgga ggtgatggat gtttctcc ggttctcagg gctccacctc ttccgggccc 180
 tagagccagg gctggtgcag aagttctccc tgcgagactg cagccacagg ctcagtgaag 240
 aactctacca ccgtgccgc ctcagcaacc tggaggggct agggggccgt gccagctgg 300
 ctatggtct ctttgagcag gacgaggcca atagcactta gcccgc 346

<210> 443
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (146)..(146)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (220)..(220)
 <223> n is a, c, g, or t
 <400> 443

ggggagggca gaaagatcac acacaaggct gtcacttcat acttcagga ttgcacagca 60
 gccgggcaga ggcgtctctc acttcccaga tggggcggcg ggcagcagag acgcacctca 120
 cttcctagac agtgccgcag ccaggncaca ggcacacctc acttcccaga cagtgggccc 180
 gccaggcaag cgtctctcac ttccagatg gggcggtctn cggaagcgg ggctcctcac 240
 ttccagaca ggttgccag gcagaggctc tctcacttc ccagaacaat tcttatgaa 300
 tttgataaag gactgaagt ccaactgaaag ctgctagtga tgatctgta atatacaatt 360
 tgtccagtag ccagtttg 378

<210> 444
 <211> 556
 <212> DNA
 <213> Homo sapiens
 <400> 444

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ctgtgcatgg cacggctcaa gacagtctg aaatacgtgc tgtttcttct gggtaactg   60
gtcatcgcca tgtccttgca gctggaccgc aggggcatgt ggaacatgct ggggccctgc  120
ctctttgctt tcgtgatcat ggcctccatg tgggettacc gctgcgggca ccggcgccag  180
tgctacccca cctcgtggca gcgctgggcc ttctacctcc tgcccggcgt ctctatggcc  240
tctgtgggca tcgcatcta cactccatg atgactagcg acaactacta ctacaccac   300
agcatctggc acatctgct ggccgggagc gcagccttgc tgctgccgcc acctgaccag  360
cccggcgagc cctgggctg ctgcagaaa ttccctgcc actatcagat ctgcaagaac  420
gatcggggagg aactgtacgc agtgacgtga cactggcctg gggacagctg ctgctctgat  480
gacctcttca gccaggagct gtatcgaggg ggaggcgcct ggtccagccc tggacagatt  540
gattccagc tgaata                                     556
  
```

<210> 445
 <211> 499
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (338)..(338)
 <223> n is a, c, g, or t
 <400> 445

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tgcctaagcc tgtctgtgct tcagaggccc ctccagtccc tggctgtggg gtaactgggg   60
gtatgagctg tggccacagg tgagcaaggc aggggaactgc aatccagccc tggccgcggg  120
agggggccatc tctggccaat gctgctgtgc ctcaaggac tgacaagtta cgtaggggca  180
gaggtcgcca gtagccagt gtctctcca tctggggggc gtctgtccac ttgtcacctt  240
aggttttcac tcatttgta ccttgggggt ttgctctgtg tgtttcatat ccaacggcaa   300
tacttgacgg gggacagagt cctctaaata ctccaatnct gcggttttta caaacataaa  360
gggggagacc ccaagtggag gacctggggc ctggagctcc ctcccaaact ttgtccagca  420
tcagcctgt tcctgggct cactggggag ggagttgtct tcatagcaca ccagagcca  480
gggatccctt ttagtttt                                     499
  
```

<210> 446
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (352)..(352)
 <223> n is a, c, g, or t
 <400> 446

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agcatcttcc aagctccgtt actatggcga tggccatgat gttacaatcc cacttgccctg   60
aataatcaag tgggaagggg aagcagaggg aaatggggcc atgtgaatgc agctgctctg  120
ttctccctac cctgaggaaa aaccaaaggg aagcaacagg aacttctgca actggttttt  180
  
```


atcggaaga tcctctgcc tgcagatgct gttgaagggg cacaagaaat tggagctgga 240
 gaagattgat gaaagtgcag gtgtgtaagg aaatagaaca gtctgctggg agtcagacct 300
 ggaattctga ttccaaactc ttattactt tgggaagtca ctacgctcc cngtagccat 360
 ctccagggtg acggaacca gtgtattacc tgctggaacc aaggaaacta acaatgtagg 420
 ttactagtga ataccecaat ggttctcca attatgcca tg 462

<210> 447

<211> 361

<212> DNA

<213> Homo sapiens

<400> 447

gtggacctac ctgataata cccittcaaa tctccatcta taggattcat gaataaaatt 60
 ttccatccca acattgatga agcgtcagga actgtgtgtc tagatgtaat taatcaaact 120
 tggacagctc tctatgatct taccaatata tttagtcct tctgcctca gttattggcc 180
 tctctaacc ccatagatcc tctcaatggt gacgtgcag ccatgtacct ccaccgacca 240
 gaagaataca agcagaaaaa taaagagtac atccagaaat acgccacgga ggaggcgctg 300
 aaagaacagg aagagggtac cggggacagc tcacggaga gctctatgtc tgactttcc 360
 g 361

<210> 448

<211> 527

<212> DNA

<213> Homo sapiens

<400> 448

gatcccccca ggcattgtgt tgtgaatgca tgtgcaaagc tctccatcag aagggtggtg 60
 tgggcctctg aggtctacc cctcgccctt gaagctccct cgggctgagg actctgcctc 120
 ctgggtctga gcattagaac caggagaggg gtgtccctgg gcagagccag ggggtgcaaac 180
 agcctgcagc catctggcct ttaagtata gtgtgtcgca ttccgggta ggaaggtagc 240
 atttcaagtt caaagagagg tcaagtcag caaccatctt tctccagca cttttggggt 300
 aaggaggaca gttttgtta tggtttaggg gaaatttca tgaaatttc accattacca 360
 atagattact gatgtccatg gcaagtgtc tgttcttgtt attttgttt gttttgttt 420
 ggtttttaa tgtaatcacc cattgtcag gccaggact ggtcaccatg agctctgcta 480
 gccacggccc caacgatgct tccggtctc atggattcca cagcaaa 527

<210> 449

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (93)..(93)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (108)..(108)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (187)..(189)

<223> n is a, c, g, or t

<400> 449

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ttctagtgtt tccccagtta ttgtgaccat ccaanccagg atatatgtaa atgcggatat   60
ccatattgca gacatgaaaa aggttatcac aangtagttt ttccaaanct ttttctaca   120
atctggtgtg gttagaaaaa gtaatgtaat aataggaagg gataataccc aaaaaattct   180
ttttaannnt gcttcaggca tgttgaaaac acttggtgga tcttcagaaa cctgactaag   240
gccatgtaaa cttatagaga gctgagagta gccagaatct tcataaaata ttccactatc   300
agttcttgat tgccgacgaa tgaatggtg accttcactt tcccagccca tcagtggctg   360
ttgttcactt ctctccatag ctttggcaag                               390

```

<210> 450

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (224)..(224)

<223> n is a, c, g, or t

<400> 450

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cctaaggcct atcagcttct atcagcccgc agtgcctgcc tgctgggcct gttggccgcc   60
accaacgcgc tgaccaatgg cgtgctgcct gccgtgcaga gcttttctg cttaccctac   120
gggcgtctgg cctaccacct ggctgtggtg ctgggcagtg ctgccaatcc cctggcctgc   180
ttcttgccca tgggtgtgct gtgcaggctc ttgncagggc tggncggcct ctctctgctg   240
ggcgtgttct gtggggggcta cctgatggcg ctggcagtc tgagccctg cccgccctg   300
gtgggcacct cggcgggggt cgtcctcgtg gtgctgtcgt ggggtgctgt tcttggcgtg   360
ttctcctacg tgaagggtgc agccagctcc ctgctgcatg gcggggggccg gccggcattg   420
ctggcagccg gcgtggccat ccaggtgggc tctctgctcg gcgctgttgc tatgtcccc   480
ccgaccagca tctatcacgt gttccacagc agaaa                               515

```

<210> 451

<211> 387

<212> DNA

<213> Homo sapiens

<400> 451

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gcagcgtgag ggtgcactca ggggtgtgtt agagcgtctc gtgtgtgcta gacgcacccc   60
tactgttcc tatagaacac agaggacata gaaaccctt aaaacacaca tgggattctc   120
tggtcacagt ttgggttca ggctatgctg ctttgggcag gtggagcacc ccccgaggaa   180
gcctgcaagt ccagggcaca ggctgccttt tggagggagg gctggcccat aggtgctgct   240
ggctccccgc caccagctgg gcctcagccc tcacggcatt cctgctgagc accgtggggc   300
accaggggag caggggcgtc agggatcctg ctgccggcac cctgtgccg ctggcatgag   360
ggcctgttcc ccactgtgaa ggatgaa                               387

```

<210> 452

<211> 449

<212> DNA

<213> Homo sapiens

<400> 452

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gtctcttaga aggacactgg tcattggatt taaaggccac ctgggtaatt tatagtgatc   60
taatctcaag aatctttcct taattacatg caaatactct ttatccaaat tagtttgcac   120
tcacaaattc tggagcttag tacttggaca tatattttgg ggggttgatg gttggagggg   180
cttttattca actcagtaca tcttaataag gaattaatgc cccccaactt gccttacaag   240
tcatatatta aaaacaatgt tggcctggca cagtggctca tgcctgtaac ctcaacactt   300
tggaagcca agggaggagg atcacttgag cccaggagt ggagaccagc ctggataaca   360
aaggagagacc cagtttctac aaaatattta aaaattagcc aggcattgatg gtgcattgcct   420
gtggtcctag ctattcaggg aactgaggt                                     449
```

<210> 453

<211> 548

<212> DNA

<213> Homo sapiens

<400> 453

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gccggccctt tgcaatgaat gactcttctt gagcctggca ccaggagccc taggcaggcc   60
gccgtctccc cactcacagc cccagcaggt aagcagtgtg gacaaacctt tggggctttt   120
ttatttggag aaccgtccag catgcattct ggcccacggc ctgagcaagc tgcagccctt   180
ctgaggccat gggcttcgtt ggctaagttg ggggtcttag ccttgcattg gttgtgggca   240
tcaaattcac ctccaaaaga cccattcttg ggagccctct ggccctctgt tgccttttca   300
cttcaaaacc tctttttctt gggagaggcc ctgaaccctg tgcgggagag ctggtctctc   360
agccctggca ggccctcagc cagcttccca gcaagacaaa gggcaccctt gtggttttgg   420
gacctaatgt gttgggggtc ccgaggtcac tgaggactgg tacctcggga acgcaagctg   480
tcagtgaac tgcccacaa gaattcacag gtctcaaagc aggaacagtg ggtttgtgtc   540
tcacctga                                     548
```

<210> 454

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (268)..(268)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (290)..(290)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (295)..(295)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (324)..(325)

<223> n is a, c, g, or t

<400> 454

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ttgtcttcta cgaccagctg aagcaagtga tgaatgcgta cagagtcaag ccggccgtct   60
ttgacctgct cciggtgtt ggcattgtg cctacctgg catggcctac gtggtgtcc   120
aggtgagcag tgcccaggct cagcacttca gcctcctcta caagaccgtc cagaggctgc   180
tcgtgaaggc caagacacag tgacacagcc acccccacag ccggagcccc cgccgtcca   240
cagtccttgg ggccgagcac gagttggnag gggaccctct tctcccgtcn tgccntcggg   300
ttgcccgcct cctccagaga cttnncaagg gcccatcacc actggcctct gggcacttgt   360
gctgagactc tgggaccag gcagctgcca cttgtcacc atgagagaat ttggggagt   420
cttgcattgt agccagcagg ctctgtctg ggtgccacgg ggccagcatt ttgaggagg   480
cttcttctct tcttcttgg acaggtcgtc atgatggatg cactgactga ccgtctgggg   540
ctcaggctgg tgtgggatgc agccggccg                               569

```

<210> 455

<211> 516

<212> DNA

<213> Homo sapiens

<400> 455

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gtaggggtta caattcacat tcttattct gagaatttgg cccagctgt ttgccttga   60
ctccctgacc tcagagcca gggttgtgcc ttattgtccc atctgtgggc ctattctgc   120
caaagctgga ccaaggctaa ccttctaag ctccctaact tgggccagaa accaaagct   180
agcttttaac ttctccctc tatgacaaa atgaattgag ggtaggagga ggtgcacat   240
aacccttacc ctacctctgc caaaaagtgg gggctgtact ggggactgct cggatgatct   300
ttcttagtgc tacttttct agctgtccct gtagcgacag gtctaagatc tgactgctc   360
ctcctttctc tggcctcttc ccccttccct ctctcttca gctaggctag ctggtttgga   420
gtagaatggc aactaattct aatttttatt tattaaatat ttggggtttt ggttttaaag   480
ccagaattac ggctagcacc tagcatttca gcagag                               516

```

<210> 456

<211> 334

<212> DNA

<213> Homo sapiens

<400> 456

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aattaagcat ttcttgcct cctttgcttc atctttcac aacagctgga tagagggatc   60
agaaatgact gtgtcatggt gtcattcac tgcaaacctc cagtgcaag ctcttggct   120
ccccggagg gagcaagaat ctcatagtc agagacacag agggccttt agccctaatg   180
accttttga tgggactgca actcatgact atcctgatat tggaagaaag gactttgta   240
atcttctccc ccatagctct gctgcgtagg tctacatctt actcagaatc actacacatt   300
ccttagtct tctccaage tccagagcca ttgg                               334

```

<210> 457

<211> 569

<212> DNA

<213> Homo sapiens

<400> 457

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gggcagggtt ggagcccatg ggaccccggt ggtctctgtc caggagcagc agaggaggct   60
gacaggccct gtccctctg ctctgggggt gctggggagc ccagctcac accctccaa   120
tgcttatatg ctgaagctca cagaatgggc ttcttgctg acagcaagtc aaagaatgag   180
tttaatata aagtgtaaag ttactttcca tccccagcc agcctgcccc ctgccccatt   240

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tcccatgagc acacttctgg ggaaggaaaa caggctcctg gccttcactc tcagcagagc 300
 tttaggatg cccagggcat gccctgagct ccttctgtgt acctgtccc acttctgagc 360
 caccgctgc cctccgcac tgctggcaaa ccagttcct gcctcagcca ggtctcctc 420
 cctggttcc agtcacacag agcccagcag ctttctctt cagtccata agggcagcct 480
 tgtgtccctg gccacattc caccgccag ggtcttctc ccatcttcc catccttct 540
 gctgagcttc cacagagctc gtttgcaaa 569

<210> 458

<211> 467

<212> DNA

<213> Homo sapiens

<400> 458

tacctcggag ctgatgctgg gcggaaccaa cacactgggtg ctgcacaaca cgtgtgagga 60
 ctctgtctg gccgcacca tcatgctgga cctagcgctg ctgaccgagc tgtgccagcg 120
 cgtgagcttc tgactgaca tggaccccg gccgcagacc tccaccccg tctgtccct 180
 gctcagcttc ctctcaagg cgccactagt gccgcccggc agcccggtgg tcaatgcgct 240
 ttccgccag cgcagctgca tcgagaacat cctcagggcc tgcgtggggc tcccgccaca 300
 gaaccacatg ctcttggaac aaaaatgga gcgcccaggg cccagcctca agcgagttgg 360
 acccgtggt gccacctacc ctatgttga caagaaagga ccggtaccg ctgccaccaa 420
 tggtgcacc ggtgatgcca atgggcatct gcaagaggag ccccaaa 467

<210> 459

<211> 254

<212> DNA

<213> Homo sapiens

<400> 459

attagctata gattccactg gccttaacaa tacaattaag tgtatacatg atatatgtca 60
 cacacaaaag ccaccttaa ttattgaaat aacctgtatt cttttggaa atcatttaag 120
 tttgtattg aagtactata tttttgtgc atcaatgtat tttctattt acaagcctat 180
 gtaaaagtga agtgtatctt cagtgaacca tgtgccaatt aagctgtaat aaaaagtgg 240
 tctagtctgt caaa 254

<210> 460

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (95)..(95)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(99)

<223> n is a, c, g, or t

<400> 460

cttttgctga gggtttctct gaggttttt tgatgcttta taggaaacta tttttaaaa 60
 aaagccattt cccaccaag gacacagtgg atgtntttnc cctgactcca gcagggaag 120
 gaatgtagcc gagaggttgt gtgggtggg ctctggtgcc ctctccctg gccaggacac 180
 ctctctctct gattcccttg gcacctgtc tttctgtctg ttacctgtc tccctgctg 240

cccactctga tcttttcag cccactctga ctccatctg ggggctgaga ccacccttgc 300
 ctgccccctt ctttctgcct taagaatgct cttttagg 338

<210> 461
 <211> 544
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (182)..(185)
 <223> n is a, c, g, or t
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 <222> (504)..(504)
 <223> n is a, c, g, or t
 <400> 461

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 tgctggaacc agttacgact gaagtcagtg tagacctgag ctgggaggga acctgttagt 120
 ctccccacct ctccctgaa gagacaggca cccctcnnn nnnnnnnnnn nngagggagt 180
 gnnnnttctg ccttgagtcc ccaggggaaa aaaaaaaaa gatatttatg aaataaatgg 240
 taatttgtgt aaataangct ttaaggttcc cagaatatgc aaattggtat taatttattc 300
 aaagnnnnnn nnnnnnnnnn acatatattt agagattaac tcatacattt aaagtttttt 360
 tcattttacg tgagcatcta tattgtacag ggctgggggg ncccttggtc gcgggagaag 420
 gccagagcc ctggaggagc caccaccccg ccggccctc gaccctcgcc cccctcggcc 480
 cctccgcccg ggtttggtc gcenggcccg cgggctccac ctcaggtttt cacttttcgc 540
 tccg 544

<210> 462
 <211> 238

<212> DNA

<213> Homo sapiens

<400> 462

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gtgcatggaa ctgtgggtgc caaggtattt aaaagggctt tctgcctcc ttctttga  120
tttattaat ttgatttggg ctataaaata tcattttca ggttattct ttagcaggt  180
gtagttaaac gacctccact gaactgggtt tgacctctgt tgtactgatg tgttgtga  238
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<210> 463

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

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<222> (36)..(36)

<223> n is a, c, g, or t

<220>

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<222> (53)..(53)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (215)..(215)

<223> n is a, c, g, or t

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<221> misc_feature

<222> (254)..(275)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (298)..(298)

<223> n is a, c, g, or t

<400> 463

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catatggagg tggggtggac aggggtctgt gccccttcag agggagtgca gggcttggg  120
tgggcctagt cctgctccta gggctgtgaa tgtttcagg gtggggggag ggagatggag  180
cctcctgtgt gtttgggggg aagggtgggt ggggncctcc cacttggccc cgggggtcag  240
tggtatttta tacnnnnnnn nnnnnnnnnn nnnnntggga aaggctgtgt gagggganag  300
aaggagagg gtgggcctgc tgtggacaat ggcatactct ctccagccc taggaggagg  360
gctcctaaca gtgtaactta ttgtgtcc                               388
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<210> 464

<211> 345

<212> DNA

<213> Homo sapiens

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<220>
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<222> (67)..(83)
<223> n is a, c, g, or t
<220>
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<222> (137)..(137)
<223> n is a, c, g, or t
<220>
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<222> (143)..(146)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (148)..(155)
<223> n is a, c, g, or t
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<222> (157)..(157)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (160)..(160)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (162)..(162)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (164)..(164)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (166)..(168)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (170)..(188)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (247)..(248)
<223> n is a, c, g, or t
<400> 464
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gagcccnnnn nnnnnnnnnn nnngcaggcc aggaagagga ggaagccctg gaggggctgg 120
aggtgatgga tgtttctc cgnnnntnnn nnnnnncnecn cntntnnngn nnnnnnnnnn 180
nnnnnnngt gcagaagtc tcctgcgag actgcagccc acggctcagt gaagaactct 240

```


accaccnntg ccgcctcagc aacctggagg ggctaggggg ccgtgccag ctggctatgg 300
 ctctctttga gcaggagcag gccaatagca cttagccgc ctggg 345

<210> 465
 <211> 244
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (92)..(128)
 <223> n is a, c, g, or t
 <400> 465

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 gtttgtttt attgtgttt ctaaccataa gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnac acaaaaaaat ggtcaccgca ggccatacta ccaatgaaat ggtaggtaaa 180
 caaatcttct ggtcaagaga aaaaaaaaag aaatagcact ctgcatgctt tgctctacaa 240
 gatg 244

<210> 466
 <211> 578
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (138)..(138)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (141)..(141)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (145)..(145)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (148)..(148)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (165)..(165)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (168)..(170)
 <223> n is a, c, g, or t
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<222> (377)..(377)
 <223> n is a, c, g, or t
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 <222> (453)..(453)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (485)..(485)
 <223> n is a, c, g, or t
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 <222> (487)..(487)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (489)..(489)
 <223> n is a, c, g, or t
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 <222> (495)..(495)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (497)..(497)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (517)..(517)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (522)..(522)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (528)..(528)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (531)..(531)
 <223> n is a, c, g, or t
 <400> 466

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ctgggtagct gagcttatat gcccggcac tgaatgagag ctctctttgt aactgtgtga    120
cttgagatct agtttgcgag ntcnggnaa acaatacatg tgttntnnn tttgtgttg    180
  
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ctcagcaagc agatgtctga gatgtaagaa gcttttcttt tctgtggca ttgattctga 240
 cttagagctg aagtaaagat cactgaaaca tcacgtcaag ttgaagtcac tcataggtct 300
 ttgtccttta ggcaggacag gagagtcatt aagaagcatt tcactgtagc attctatcac 360
 aatatcatct ggaattnttt tctttgccca gaaagcctta acttgccctct agagaatccc 420
 tggnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn ntncaactct tctgctgtgg aagttgaag 480
 cgacngnena ggcanancca gagaatttcc tcaagtingcc tntaggtgcc ntgttatctt 540
 atgccccccac cctccctca acaatatgag tgatccag 578

<210> 467

<211> 481

<212> DNA

<213> Homo sapiens

<400> 467

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 ccctcgaggt tgaacctcg gatacgatag aaaatgtaa ggccaagatc caggataagg 120
 aaggaattcc tctgacacag cagagactga tcttgctgg caagcagcta gaagatggac 180
 gtactttgtc tgactacaat attcaaaagg agtctactct tcatctgtg ttgagacttc 240
 gtggtgtgac taagaaaagg aagaagaagt ctacaccac tccaagaag aataagcaca 300
 agagaaagaa ggtaagctg gctgtcctga aatattataa ggtggatgag aatggcaaaa 360
 ttagtcgcct tcgtcgagag tgccctctg atgaatgtgg tgctgggggtg tttatggcaa 420
 gtcacttga cagacattat tgtggcaaat gttgtctgac ttactgttc acaaaccag 480
 a 481

<210> 468

<211> 452

<212> DNA

<213> Homo sapiens

<400> 468

gtaaaggctg ttctggcttt ttatcttctt agctcatctt aaataagcag tacacttga 60
 tgcagtgcgt ctgaagtgt aatcagttgt aacaatagca caaatcgaac ttaggatttg 120
 ttctctctct tctgtgttc gatatttgat caattcttta attttggaag cctataatac 180
 agttttctat tcttgagat aaaaattaaa tggatcactg atattttagt cattctgctt 240
 ctcactctaa tatttccata ttctgtatta ggagaaaatt accctcccag caccagcccc 300
 cctctcaaac ccccaacca aaaccaagca ttttggatg agtctcctt agtttcagag 360
 tgtggattgt ataaccata tactcttoga tgtactgtt tggtttgga ttaattgac 420
 tgtgcatgac agcggcaatc ttttcttgg tc 452

<210> 469

<211> 515

<212> DNA

<213> Homo sapiens

<400> 469

ggtcacgttc ttgatactc agaactcttt gctctgtcg ggggtgggggt gggaactcac 60
 gtggggagcg gtggctgaga aatgtaagg attctggaat acatattcca tggactttcc 120
 ttccctctcc tgcttctct ttctctctc cctaaccttt cgccgaatgg ggcagacaaa 180
 cactgacgtt tctgggtggc cagtgcggct gccaggttcc tgtactactg cctgtactt 240
 ttcatittgg ctaccgttg atttctcat aggaagttg gtcagagtga attgaatatt 300
 gtaagtcagc cactgggacc cgaggatttc tgggaccccg cagttgggag gaggaagtag 360
 tccagccttc caggtgggag tgagaggcaa tgactcgta cctgccgccc atcaccttgg 420
 aggccttccc tggccttgag tagaaaagtc ggggatcggg gcaagagagg ctgagtacgg 480

atgggaaact attgtgcaca agtctttcca gagga

515

<210> 470

<211> 378

<212> DNA

<213> Homo sapiens

<400> 470

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ccctggttg cagctgtttt caaagccccc gataatcgct cttttccact ccaagatgcc   60
ctcataaacc aatgtggcaa gactactgga ctctatcaa tggactcta atcagtcctt  120
attatcccag ctgtctgagg ggcagggaga gcgcctcttc ctctgggcag cgctatctag  180
ataggtaagt gggggcgggg aagggtgcat agctgtttta gctgagggac gtggtgccga  240
cgccccaaa cctagctagg ctaagtcaag atcaacattc cagggttggg aatgttggat  300
gatgaaacat tcatttttac ctgtggatg ctagtctgt agagttcact gttgtacaca  360
gtctgttttc tatttgtt

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378

<210> 471

<211> 511

<212> DNA

<213> Homo sapiens

<400> 471

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aacactgcat aaccggttc ttgaggagt gtgaccccaa caaggataag cacatcaccc   60
tgaaggagtg gggccactgc ttggaatta aagaagagga catagatgaa aatctctgt  120
ttgaacgaa gattttaag aactcaactt tccagcatcc tctctgttc taaccacttc  180
agaaatatat gcagctgtga tactgtaga ttatatatta gcaaagtgt agcatgtatg  240
acaagacaat gagagtaatt gcttgacaac aacctatgca ccaggtattt aacattaact  300
ttggaacaaa aaatgtacaa ttaagtaaag tcaacatatg caaatactg tacattgtga  360
acagaagttt aattcatagt aatttcactc tctgcattga cttatgagat aattaatgat  420
taaaactatta atgataaaaa taatgcattt gtattgttca taatatcatg tgcactcaa  480
gaaaatggaa tgctactctt ttgtggttta c

```

511

<210> 472

<211> 215

<212> DNA

<213> Homo sapiens

<400> 472

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ttctgagtgt agtgtgtag gacccggcgg gtgtgcagca actgccctgg agccccagcc   60
cctgcgtcca tctgtctgt gcgcccaca gtagacgtgc agacgtccct gagaggttct  120
tgaagatgtt tatttatatt gtctttttt actggaagac gtacgcatac tccatcatg  180
ttgtatttgc agtggctgag gaattctgt acgca

```

215

<210> 473

<211> 381

<212> DNA

<213> Homo sapiens

<400> 473

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ctctcttagc tcagttactc aattcatagc tagtattttt taaaataatt ttatatctgt   60
gtaccacccc atatatcca tattactgtt tcacatgtac agctttctac ttctttgtaa  120
gaacaccaac caaccaaggt ttaagtattt aataggcttg agcaccgggt ggcagatgtt  180
ctatgcagtg tggftcaagt ttctttgacc gcacttatat gcattgctaa tatggaattt  240
aagataccat acacagtctc tcattggacct atctctattg tagaattatg acttatgtct  300

```

tacttggcaa atttttctga atgtgacctt ttttgcctga tttgctgggt ttgggattaa 360
ctagcattat ttgccacct t 381

<210> 474

<211> 484

<212> DNA

<213> Homo sapiens

<400> 474

gccattacag tatccaatgt cttttgacag gtgcctgtcc ttgaaaaaca aagtttctat 60
ttttattttt aattggttta gttcttaact gctggccaac tcttacatcc ccagcaaate 120
atcgggcatc tggatttttt ccattatgtt catcaccctt atatcatgta cctcagatct 180
ctctctctct cctctctctc agttatatag tttctgtctt tggacttttt tttcttttc 240
ttttcttttt ttttttgcct ttaaaacaag tgtgatgcca tatcaagtcc atgttattct 300
ctcacagtgt actctataag aggtgtgggt gtctgtttgg tcaggatgtt agaaagtgtc 360
gataagtagc atgatcagtg tatcgaaaaa gggttttagg aagtatggca aaaatgttgt 420
attggctatg atggtgacat gatatagtca gctgcctttt aagaggtctt atctgttcag 480
tggt 484

<210> 475

<211> 563

<212> DNA

<213> Homo sapiens

<400> 475

agagtgcagt tcccatgagt cacttctga acccattgac caaagggtgga cagagacaat 60
cctgtagacc ttgacattca gaaagatgtg agctgcttac tgatcatata tgcatacgtt 120
tctttacagc agaggaaaacc attgtccaca aaactgatgt tcttttgggg ttttatgtac 180
agacttgtcc aatcatgtgt gtggttcctg cgagttgctg atgactccgc attgaagctc 240
tctgagttct ttgattttaa gttgggttta tggaaatttt tcaaatgttg gaaggcgtgt 300
ggttcttctt gccctccctc cctttttgga aatatgaaag caaatgttta gaagaattcc 360
ttttgaaaag ctgtgtcgtg ttcctgtga aactgagcag gtgtgtgttg gcgcgctaag 420
tgccacatgc ttgtgtgtag aggaggaggt ggccctgccg gctccgcgct gctgtgcttg 480
tgatccctac ctgtccccg ctctgttgc cagcagcact cactgcactc ctttgcata 540
tactctgcat cactgtcata ctc 563

<210> 476

<211> 295

<212> DNA

<213> Homo sapiens

<400> 476

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agcttcatca agccatgaaa ggtgttgga ctcgccataa ggcatgtatc aggattatgg 120
tttcccggtc tgaaattgac atgaatgata tcaaagcatt ctatcagaag atgtatggta 180
tctccctttg ccaagccatc ctggtatgaaa ccaaaggaga ttatgagaaa atcctggtgg 240
ctctttgtgg aggaaactaa acattccctt gatggtctca agctatgac agaag 295

<210> 477

<211> 360

<212> DNA

<213> Homo sapiens

<400> 477

gcaataactc tgggaggggc tcgagagggc tggctcttat ttatttaact tcacccgagt 60
 tcctctgggt ttctaagcag ttatgggtgat gacttagcgt caagacattt gctgaactca 120
 gcacattcgg gaccaatata tagtgggtac atcaagtcca tctgacaaaa tggggcagaa 180
 gagaaaggac tcagtgtgtg atccgggttc ttttgctcg cccctgtttt tttagaatc 240
 tcttcagct tgacatacct accagtatta ttcccgacga cacatataca tatgagaata 300
 taccttattt atttttgtg aggtgtctgc cttcacaat gtcattgtct actcctagaa 360

<210> 478

<211> 461

<212> DNA

<213> Homo sapiens

<400> 478

agcccacagt gcctgtacag gaaggtgcct ggccatgtca cctggctgct aggccagagc 60
 catgccaggc tgcgtccctc cgagcttggg ataaagcaag gggacctgg cgctctcagc 120
 tttccctgcc acatccagct tgtgtccca atgaaatact gagatgctgg gctgtctctc 180
 ccttcagga atgctgggcc ccagcctgg ccagacaaga agactgtcag gaagggtcgg 240
 agtctgtaaa accagcatac agtttgctt tttcacatt gatcatttt atatgaaata 300
 aaaagatcct gcatttatgg ttagttctg agtctgaga cttttctcg tgatggctat 360
 gccttgaca caggtgttgg tgatggggct gttgagatgc ctgttgaagg tacatcgtti 420
 gcaaatgtga gtttctctc ctgtccgtgt ttgttagta c 461

<210> 479

<211> 541

<212> DNA

<213> Homo sapiens

<400> 479

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 tcagccaggg acaaaatccc ctccaaacc actctccaca gctttttaa aatacttcta 180
 ctcttaaca ttacctagg ctctctcaac tgcccaaat ctcttaatag ctctagtgc 240
 tgctacaatc taagttagt caccagaggg aagagaacat ggcattaaaa gaatcacatc 300
 ttcagaagag aagacactaa tattattacc catatacatg attcagaag atgacataag 360
 attctctta aagaggaaat gtcaggaatc aagccactga atccttaaag agaaaagttg 420
 aatatgagtc attgtgtctg aaaactgcaa agtgaactta actgagatcc agcaaacagg 480
 ttctgtttaa gaaaaataat ttactataa ttagtaaaa tggacttctt attcaaagca 540
 t 541

<210> 480

<211> 488

<212> DNA

<213> Homo sapiens

<400> 480

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 tcaattctg tgttgccaag ctccaagccc catcttctaa atggcaaagg aagtggtgatg 120
 gcccagcac agcttgacct gaggtgtgg tcacagcggg ggtgtggagc cgaggcctac 180
 ccccgagaca ccttgacat cctctccca cccggctgca gaggccagag gccccagcc 240
 cagggtcct gcacttactt gcttattga caacgttca gcgactccgt tggccactcc 300
 gagaggtggg ccagtctgtg gatcagagat gcaccacaa gccaaaggaa cctgtgtccg 360
 gtattcgata ctgcgacttt ctgctggag tgtatgactg cacatgactc gggggtgggg 420
 aaaggggtcg gctgacctg ctcatctgct ggtccgtggg acggtgcca agccagaggc 480

tgggttca

488

<210> 481
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (135)..(135)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (258)..(258)
 <223> n is a, c, g, or t
 <400> 481

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 tttcaaaaga gcacctgagt catgtgtatt cccggcnnnc ttataaatg acccggtcaa 120
 gttggttca aagtncgaca ggcttgtctg ttactagct gcgtggcctt ggacgggtgg 180
 ctgacatctg taaagaatcc tcctgtgatg aaactgagga atcgggtggc cgggcaagct 240
 gggaagagca aagccagnag ctgcgtgcc tcaataccca caaaagacca ttcccagtat 300
 acataagcac aggatgtttt tctcaagagg gatgtattta tcaactggac atctgtttat 360
 aatataaaca gacatgtgac tgggaacatc ttgctgccaa aagaatccta ggcagtggct 420
 cattgtatgt gaggtgaac cacgtgaaat tgccaatatt aggctggctt ttatctaaa 480
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<210> 482
 <211> 451
 <212> DNA
 <213> Homo sapiens
 <400> 482

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 aaaactgtca cagtcaaagt gcctcagaag aactcataag aatcatgcaa gcttctctcc 180
 tcagccattg atggaaagt cagcaagatc agcaacaaaa ccaagaaaaa tgatccttgc 240
 gtgctgaata tctgaaaaga gaaattttc ctacaaaatc tcttgggtca agaaagttct 300
 agaatttgaa ttgataaaca tgggtgggtg gctgagggtg agagtatatg aggaaccttt 360
 taaacgacaa caatactgct agcttccagg atgattttta aaaaatagat tcaaatgtgt 420
 tatctctct ctgaaacgct tctataact c 451

<210> 483
 <211> 364
 <212> DNA
 <213> Homo sapiens
 <400> 483

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taaaggcctt tgtatcttct ttctctaat gttgtatcat actcttctaa aacttgagtg 180
gctgtcttaa aagatataag gggaaagata atattgtctg tctctatatt gcttagtaag 240
tattccata gtcaatgatg gtttaatagg taaaccaaacc cctataaacc tgacctcctt 300
tatggtaat actattaagc aagaatgcag tacagaattg gatacagtac ggatttgcc 360
aat 364

<210> 484
<211> 468
<212> DNA
<213> Homo sapiens
<400> 484

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aattttaag ctatttccc aggggaaaat gaaggtagg atttaacagt catttaaaaa 180
aaaaattgt ttgacggat gattggatta ttcatttaa atgattagaa ggcaagttc 240
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cctcatggcc tattatatta aaatatggct ataaatatat aaaagaaaa gataaagatg 360
atctactcag aaattttat ttttctaagg ttctcatagg aaaagtacat ttaatacagc 420
agtgtcatca gaagataact tgagcacctg catggcttaa tgtttatt 468

<210> 485
<211> 357
<212> DNA
<213> Homo sapiens
<400> 485

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gtgattccca ggacttttcc tcaagaggaa atctggattt ccacctaccg cttacctgaa 180
atgcaggatc acctacttac tgtattctac attattatat gacatagtat aatgagacaa 240
tatcaaaagt aaacatgtaa tgacaatata tactaacatt ctgttaggag tggtagaga 300
agctgatgcc tcatttctac attctgtcat tagctattat catctaactg ttcagtg 357

<210> 486
<211> 436
<212> DNA
<213> Homo sapiens
<400> 486

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tgaccagcaa ctttgatgtt tgcactaaga ttttatttg aatgcaagag aggttgaaag 180
aggattcagt agtacacata caactaattt atttgaacta tatgttgaag acatctacca 240
gtttctcaa atgccttttt taaaactcat cacagaagat tggtgaaaat gctgagtatg 300
acacttttct tcttgcacgc atgacagcta cataaacagt ttgtacaat gaaaattact 360
aatttgttg acattccatg ttaactacg gtcattgtca gttcattgc atgtaatgta 420
gacctagtcc atcaga 436

<210> 487
<211> 470

<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (83)..(83)

<223> n is a, c, g, or t

<400> 487

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ttaataactg ttctaacat ttcattttac tagcgagaaa tctttgattt cattttatc 180
tttgtaattc tagacactag attgtagttt agccataact gatgtttttt aaaaagggat 240
atatatttctt gcacagtgtg tcaaaaaaga gacaagttc agtcctcaat gctgtccttt 300
gttttacagg tacaagtttt ctagctcaga caaactatga aaaactgtag actattctca 360
aggtattaac tcgcagaccc tctgggggta ggggctgttt tctaagttac aggagagtg 420
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<210> 488

<211> 446

<212> DNA

<213> Homo sapiens

<400> 488

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attgatcccc agagggtctt agtctgggaa agtcaggcca acaagcaacg ttgcatcat 180
gttatctctt aagtattaaa agttttattt tctaaagttt aaatcatgtt ttcaaaaata 240
ttttcaagg tggtcgttc catttaaaaa tcatctttt atatgtgtct tcggttctag 300
acttcagctt ttggaaattg ctaaatagaa ttcaaaaatc tctgcatcct gaggtgatat 360
acttcattt tgtaatcaac tgaagagct gtgcattata aaatcagttt gaatagttag 420
aacaattctt atttatgccc acaacc 446
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<210> 489

<211> 549

<212> DNA

<213> Homo sapiens

<400> 489

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gctgggggtg ggctttggca gtggcggggg tagcagctcc agcgtcaaat ttgtctccac 180
cacctctcc tcccgaaga gttcaagag ctaagaacct gctgcaagtc actgccttcc 240
aagtgcagca acccagccca tggagattgc ctcttctagg cagttgtcga agccatgttt 300
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caggagagcc ccattccag cccctggtct cccgtgccgc agttctatat tctgctcaa 420
atcagccttc aggtttccca cagcatggcc cctgtgaca cgagaaccca aagtttccc 480
aaatctaat catcaaaaca gaatcccccac cccaatccca aattttgttt tggttctaac 540
tacctccag 549
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<210> 490
 <211> 474
 <212> DNA
 <213> Homo sapiens
 <400> 490

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 ctcaactga gggcgtgtag taagtgttag aaggctcgag gggacgtgga cttattgcc 180
 ttggtttgca atacctgcaa ataatgagtt tgaagaaaa caatgaaatg tgttaaaaat 240
 ttgaccatat tagataaatt ttggtggatt tagtcataag atggaaaaag actggtgaat 300
 cttttattac aaaatgttgc tgttaaaatg ggatcatcat ctttgaaagg ggggaggagg 360
 agtaaaagcc cgattataat ggtgatcaat tcaagtcagt gttgactatt ctgtgaaata 420
 tattggcca gtggaaatga taatcagaaa agactgtaaa tagatccatc caaa 474

<210> 491
 <211> 378
 <212> DNA
 <213> Homo sapiens
 <400> 491

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 ttaattctgg atcatcatg gctttctaata accaattgta atattacaa tattcacaa 120
 aacttagaat ttgcaaatg cagggaattct gccagtgtt ctttgctaag ccttgcattc 180
 aaaatttgaa attttaacat tggcacccaa aacctacatg gaatgtatgt ctggagtatt 240
 tcaaacttta cattgaaaca taatttcctt ggaaaacaaa ccataagcct gaggagggtt 300
 ttatcaactg gaatgcttta tattagtttg ttttcaactg tacattcctc attttacatt 360
 catttaacct gccgatta 378

<210> 492
 <211> 542
 <212> DNA
 <213> Homo sapiens
 <400> 492

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 gttgtggtga tagcagttgt tgctggaatt gttgtgctgg ttattccag aaagaagaga 120
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 gcataactat ataattgaa gattatagaa gaagggaat agcaaatgga cacaattac 240
 aaatgtgtgt gcgtgggacg aagacatctt tgaaggatcat gagtttgta gttaacatc 300
 atatatttgt aatagtgaag cctgtactca aaatataagc agcttgaaac tggttttacc 360
 aatcttgaaa ttgaccaca agtgtcttat atatgcagat ctaatgtaaa atccagaact 420
 tggactccat cgttaaaatt atttatgtgt aacattcaaa tgtgtgcatt aaatatgctt 480
 ccacagtaaa atctgaaaaa ctgatttggt attgaaagct gcctttctat ttacttgagt 540
 ct 542

<210> 493
 <211> 456
 <212> DNA
 <213> Homo sapiens
 <400> 493

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 ttgttacctt aaagcactat ttattttata gatatatcta gtgcattctac atctctatac 180
 tgtactactca ccataattc aaacaattac accatgggtat aaagtgggca tttaatgt 240
 aaagattcaa agtttgtctt tattactata tgtaaattag acattaatcc actaaactgg 300
 tcttcttcaa gagagctaag tatacactat ctgggtgaaac ttggattctt tctataaaa 360
 gtgggaccaa gcaatgatga tcttctgtgg tgcttaagga aacttactag agctccacta 420
 acagtctcat aaggaggcag ccatcataac cattga 456

<210> 494

<211> 513

<212> DNA

<213> Homo sapiens

<400> 494

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 attatactat tgagaaatct atggggagga tatgagaaaa taaattcctt ctaaaccaca 180
 ttggaactga cctgaagaag caaactcggg aaatataata acatccctga attcaggcat 240
 tcacaagatg cagaacaaaa tggataaaag gtatttcact ggagaagttt taatttctaa 300
 gtaaaattta aatcctaaca ctctactaat ttataactaa aatttctcat ctctgtactt 360
 gatgctcaca gaggaagaaa atgatgatgg tttttattcc tggcatccag agtgacagtg 420
 aacttaagca aattaccctc ctaccaat ctatggaata tttatacgt ctcttgggtt 480
 aaaatctgac tgctttactt tgatgtatca tat 513

<210> 495

<211> 492

<212> DNA

<213> Homo sapiens

<400> 495

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 caacagcaca ttgacagcc ctgccactg ggccagaaa ggcagccacc aaattagcct 180
 ggacaacctt gactaccagc aggacttctt tccaaggaa gccaagccaa atggcatctt 240
 taagggtcc acagctgaaa atgcagaata cctaagggtc gcgccacaaa gcagtgaatt 300
 tattggagca tgaccacgga ggatagtatg agccctaaaa atccagactc ttctgatacc 360
 caggaccaag ccacagcagg tctccatcc caacagccat gcccgatta gctcttagac 420
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 cattttggga ag 492

<210> 496

<211> 536

<212> DNA

<213> Homo sapiens

<400> 496

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 cacacaaaaa gtgtctctgc cttagtcat ctattcaagc acttacagct ctggccacaa 120
 cagggcattt tacagggtcg aatgacagta gcattatgag tagtgtgaat tcaggtagta 180
 aatatgaac tagggttga aattgataat gcttcacaa catttgaga tgttttagaa 240
 ggaaaaaagt tcttcttaa aataattct ctacaattgg aagattggaa gattcagcta 300
 gttaggagcc catttttcc taatctgtgt gtgcctgta acctgactgg ttaacagcag 360
 tctttgttaa acagtgtttt aaactctct agtcaatcacc caccatcc aatttatcaa 420

ggaagaaatg gttcagaaaa tttttcagc ctacagttat gttcagtcac acacacatac 480
 aaaatgttcc ttttgctttt aaagtaattt ttgactccca gatcagtcag agcccc 536

<210> 497

<211> 555

<212> DNA

<213> Homo sapiens

<400> 497

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 ctatgccttg gagctctga ctgcaggac tctgtcccca cactcagaaa gactcagctc 180
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 ataacgacc tagtttagga aaaagctgct taaaactgtg gctctaagag agtaacata 360
 aaatacctta gataaaattg cactatggaa tttcattga gtatgttaa attattggct 420
 tgtctactaa tacatctgct tcaaatgaa catattcat aaaattggca tcaatttaa 480
 tgacgtcct ggtatggaac ctcatagata ccctattgga gacaatcct tgatcataaa 540
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<210> 498

<211> 507

<212> DNA

<213> Homo sapiens

<400> 498

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 ttcaaggact gttcagtg gagtcagaat gtgaaaaagg aataaaaaat actgttgggc 180
 tcaactaaa ttcaaagaag tactttattg caactctttt aatgaccttg gatgagaagt 240
 gtctaaatt ttctcttt gaagcttag gcagagccat aatggactaa aacatttga 300
 ctaagtttt ataccagctt aatagctgta gtttccctg cactgtgtca tctttcaag 360
 gcatttgtct ttgtaatat ttccataaat ttgactgtc tatatcataa ctatactga 420
 tagtttgct ataagtgtc aatagctga agcccaagaa gttggtatcg aaattgttg 480
 ttgtttaa ccaagtgt gcacaaa 507

<210> 499

<211> 213

<212> DNA

<213> Homo sapiens

<400> 499

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 tcttcaaatt cttcacatgt ttaacttaa ggattgaac catgaagtca taggttacag 180
 acctcagtt tatgccccat tggattactt ttt 213

<210> 500

<211> 173

<212> DNA

<213> Homo sapiens

<400> 500

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agtaaac tac taggaac agcagtgtc tcacagtgtg gggcagccgt ctttctaag 120
 aagacaatga tattgacact gtccctctt ggcagttgca ttagtaactt tga 173

<210> 501

<211> 531

<212> DNA

<213> Homo sapiens

<400> 501

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 ctttcttcag gctgcctaag acatgtaagc gaaacacttc aataattgtc catgaggaga 180
 aaaaaagcat tgtcatgcat gaaggaaact gaacttgagg tggcctcctt gcttgttaca 240
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 atagacattg aggacctcat ccaaacaatt taaaaatgag tgtgaagggg gaacaagtca 480
 aaatattttt aaaagatctt caaaaataat gcctctgtct agcatgcca c 531

<210> 502

<211> 511

<212> DNA

<213> Homo sapiens

<400> 502

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 ctgtgtgcca ggggctgttg ggacagtggg gacatagtct ctgccctcat agagttgatt 180
 gtctagttag gaagacaagc atttttaaaa aataaattta aacttacaac ctttgtttgt 240
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 agactgttga gttatgataa caccagtggg aattgctgga ggaaccagag gcacttccac 480
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<210> 503

<211> 324

<212> DNA

<213> Homo sapiens

<400> 503

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 ccacttgat catggcctac ccgaggagaa gaggagttag ttaactgggc ctatgtagta 180
 gcctcattta ccacgtttg tattactgac cacatatgct tgcactggg aaagaagcct 240
 gttcagctg cctgaacgca gtttgatgt ctttgaggac agacattgcc cggaaactca 300
 gtctattat tcttcagctt gccc 324

<210> 504

<211> 122

<212> DNA

<213> Homo sapiens

<400> 504

cttgccttt gtacacaagt tcccaggggtg agcagctttt ggatttaata tgaacatgta 60
 cagcgtgcatt agggactctt gccttaagga gtgtaaactt gatctgcatt tgctgatttg 120
 tt 122

<210> 505

<211> 444

<212> DNA

<213> Homo sapiens

<400> 505

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 aatcaataat gttgtgaagt aaaacaatca gtactgagaa acctggtttg ccacagaaca 180
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 ctaagatgaa ttaccagggt gagaatgaat aagctatgca aggtattttg taatatactg 300
 tggacacaac ttgcttctgc ctcactctgc cttagtgtgc aatctcattt gactatacga 360
 taaagtttgc acagtcttac ttctgtagaa cactggccat aggaaatgct gttttttgt 420
 actggacttt acctgatata atgt 444

<210> 506

<211> 212

<212> DNA

<213> Homo sapiens

<400> 506

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 agtctacaaa ctttgcctg gccgagttag gtgtagcaga aaaaggctgt gctgccctga 120
 agaatggcgc caccagctct gccgtctctg gatcggaatt tacctgattt cttcagggct 180
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<210> 507

<211> 433

<212> DNA

<213> Homo sapiens

<400> 507

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 ggggtggagga ccgttctctg tccccaggtc ctgtctctgc acagaaactt gaactccagg 360
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<210> 508

<211> 442

<212> DNA

<213> Homo sapiens

<400> 508

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 tggccctca cccaccatgg accagcccat tgcccgagct cctggggagc tcctgggacc 300
 ctgggctatg aaaatgagcc ctggctccca cctgtttctg gaagactgct cccggcccgc 360
 ctgccagac tgatgagcac atctctctgc cctctccctg tgtctgggc tggggccacc 420
 ttgtgcagc ttcgaggaca gg 442

<210> 509
 <211> 536
 <212> DNA
 <213> Homo sapiens
 <400> 509

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 tccaaaataa atttgtaat gatacattac aaaaatagat tgacatcagc ctgattagta 180
 taaattttgt tggtaattaa tccattcttg gcataaaaag tctttatcaa aaaaaattgt 240
 agatgcttgc ttttgtttt ttaatcatg gccatattat gaaaatacta acaggatata 300
 ggacaagggtg taaattttt tattattatt ttaaagatat gatttatcct gagtgcgtga 360
 tctattactc ttttactttg gtctctgttg tgctcttgta aaagaaaaat ataatttctt 420
 gaagaataaa atagatatat ggcacttgga gtgcatcata gttctacagt ttgtttttgt 480
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<210> 510
 <211> 325
 <212> DNA
 <213> Homo sapiens
 <400> 510

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 tgttctctgc agcattaggt atgacttgtt ctgagtactg ctcccggtgc taaatgaac 180
 aaagaatttg tacttaatgg catggactct ggagaatcta tgcgaaatcaa cctttctacc 240
 ttaatatctc cccaaaaatg tatagtgcct tgttttatg tacagtttat atacagaaaa 300
 gtttgctctg catttttgat gatgg 325

<210> 511
 <211> 555
 <212> DNA
 <213> Homo sapiens
 <400> 511

tgggaggccc tgtaagagcc tggtgaaatg ggagagttag aataaaatgg tctgtgagca 60
 gaagctcctg aaggggagagg gcccgaagac ctcgtggacc agagaactga ccaacgatgg 120
 ggaactgac ctgaccatga cggcggatga cgttgtgtgc accaggggtct acgtccgaga 180
 gtgagtggcc acaggttagaa ccgcggccga agcccaccac tggccatgct caccgcctg 240
 cttaactgcc cctccgtcc caccctctcc ttctaggata gcgtccctt tacccagtc 300
 acttctgggg gtcaactgga tgctcttgc aggtcttgc tttcttgac ctctctctc 360
 ctcccctaca ccaacaaaga ggaatggctg caagagccca gatcacccat tccgggttca 420
 ctcccgcct ccccaagtca gcagtcttag ccccaaacca gccagagca gggtctctct 480
 aaaggggact tgagggcctg agcaggaaag actggccctc tagcttctac cctttgtccc 540
 tgtagcctat acagt 555

<210> 512

<211> 513
 <212> DNA
 <213> Homo sapiens
 <400> 512

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ttccttggtt tggtctctt tcagaatgcc gggagagtac atgcagggat tccatctaata 60
cacccctcagc actctttctc tggctctgct ggatagattt agatttcctt tctttttta 120
gggcctcagt ctgctatctc ctttggtggc taccaccact cactcccttg atatcttcta 180
ctcccttgcc ttcacettgc ttaagactga gaagggaggt agattttgtc actagctctt 240
cttttctc actgtgtacc ccaccaaca agattagttc aagttaaaaa gaacctactg 300
gaggtaaact gggagagcaa gtgttgatc tgggctggc cctttcccat aaaattaggt 360
ccctggttgt atgttccat agcaccccat acttctctc tcagaataat catttccctt 420
gtaatgctca gcatccgcat cctgcttgac tgcaacttg ctgaaggtag ggactgtttg 480
tcttggaatt cgctgccagt ccttagaaca gtg 513
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<210> 513
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (117)..(118)
 <223> n is a, c, g, or t
 <400> 513

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ggaatttgc ccatcatgtt tcagtgaaga tgctgtaaat aggttnagat ttactgtct 60
atggatttgg ggtgttacag tagccttatt cacctttta ataaaaatac acatgannac 120
aagaaagaaa tggctttct taccagatt gtgtacatag agcaatgttg gtttttata 180
aagtctaage aagatgttt gtataaaatc tgaattttgc aatgtattta gctacagctt 240
gtttaacggc agtgtcattc cctttgcac tgaatgagg aaaaaatggt ataaaagggt 300
gccaaattgc tgcattttg tgccgtaatt atgtaccatg aatatttatt taaaatttcg 360
ttgtccaatt tgaagtaac acagtattat gcctgagtta taaatattt ttctttctt 420
tgttttattt taatagcctg tcataggtt taaatctgct ttagtttcac attgcagtta 480
gccccagaaa atgaaatccg tgaagtcaca ttccacatc 519
```

<210> 514
 <211> 563
 <212> DNA
 <213> Homo sapiens
 <400> 514

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agagcttct gatctgggtg aatgaggagg atcatacacg ggtgatctcc atggagaagg 60
gtggtaacat gaagagagtg ttgaaagat tctgccgagg cctcaagag gtggagagac 120
ttatccaaga acgtggctgg gagttcatgt ggaatgagcg ttgggatac atcttgacct 180
gtccatctaa cctgggcact ggactcggg caggagtga catcaaaactg cccctgctaa 240
gcaaagatag cgtcttccca aagatcctgg agaacctag actccaaaaa cgtggtactg 300
gaggagtga cactgctgct acaggcggg tctttgatat ttctaattg gaccgactag 360
gcaaatcaga ggtggagctg gtgcaactgg tcatcgatgg agtaaaactat ttgattgatt 420
```


gtgaacggcg tctggagaga ggccaggata tccgcatecc cacacctgtc atccacacca 480
 agcattaact ccccatcgcc agctgatgac tcaagattcc caggagtgtt gctcattcta 540
 atgatggccc attctacttg ctc 563

<210> 515
 <211> 549
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, or t
 <400> 515

aaactactaa ccaactgcaag ctcttgtaa attttagtt aattggcatt gctgtttt 60
 tgaaactgaa attacntgag ttccatttt tcttgaatt tatagggttt agatttctga 120
 aagcagcatg aatatatcac ctaacatcct gacaataaat tccatccgtt gtttttttg 180
 ttgtttgtt tttcttttc cttaagtaa gctctttatt catcttatgg tgcagcaatt 240
 ttaaaatttg aaatatatta aattgtttt gaacttttg tgtaaaatat atcagatctc 300
 aacattgttg gttcttttg ttttcattt tgtacaactt tcttgaatt agaaattaca 360
 tctttgcagt tctgttaggt gctctgtaat taacctgact tatatgtgaa caatttcat 420
 gagacagtca ttttaacta atgcagtgat tctttctcac tactatctgt attgtggaat 480
 gcacaaaatt gtgtaggtgc tgaatgctgt aaggagtta ggtgtatga attctacaac 540
 cctataata 549

<210> 516
 <211> 443
 <212> DNA
 <213> Homo sapiens
 <400> 516

agaagtctca gctaagctca cgtctgaga aagctcaaag gtttgaagg agcagaaaac 60
 ccttgggcca gaagtaccag actagatgga cctgcctgca taggagtttg gaggaagtg 120
 gaggtttgtt tctctgttc aaagctgcct gtccctaccc catggtgcta ggaagaggag 180
 tgggggtgtg tcagaccctg gaggcccaa ccctgtctc cagagctct cttccatgct 240
 gtgcgccag ggtcgggagg aaggactcc ctgttagtt tgtgctgtaa agagttgctt 300
 ttgtttatt taatgctgtg gcatgggtga agaggagggg aagaggcctg ttggcctct 360
 ctgtcctctc ttctcttcc cccaagattg agctctctgc ccttgcag cccaccctg 420
 gcctagacca gcagacagag cca 443

<210> 517
 <211> 516
 <212> DNA
 <213> Homo sapiens
 <400> 517

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 tctgcgtggc atctgcagc tttcacctt tcattctat tcttacttt tctgtctgag 120
 cctagctgta caaacttgca ctttcattg ctaatataaa ttcagttta tttaccatt 180
 ttagagacta ctaatgatta aatgtagaag gagagggtgc acatgtttt atgtggagt 240
 tttaaaagat aaatttatac cactgtaatg tgcagctttt attaaaagag aaattggtg 300
 aactgctagg ttgaatgaga gacttcatct attggactat ttttttaac ccaggcatat 360

ggctcttagt aatggcttgt aatttgtgaa aacattaatt tgggggtttt cctgttttc 420
 agttgtccat gtacacatag tcattatatt agaaaagaaa gctgttcaac aaactgttt 480
 aattgttta aatcaacata gcatgaaaca ccaaat 516

<210> 518
 <211> 516
 <212> DNA
 <213> Homo sapiens
 <400> 518

gtagtgatc actgagtcac ttgcagtgt ttctgccaca gaccttggg ctgccttata 60
 ttgtgtgtgt gtgtgggtgt gtgtgtgttt tgacacaaaa acaatgcaag catgtgtcat 120
 ccatatttct ctacatcttc tcttgagtg agggaggcta cctggagggg atcagccac 180
 tgacagacct taatctaat tactgctgtg gctagagagt ttgaggattg cttttaaaa 240
 aagacagcaa acttttttt ttattaaaa aaagatatat taacagtttt agaagtcagt 300
 agaataaaat cttaaagcac tcataatatg gcacccctca attctgtat aaaagcagat 360
 cttttaaaa aagatacttc tgtaactta gaaacctggc atttaaatca tttttgtct 420
 ttaggtaaaa gcttgggtt gtgtcgtgt tttgttgtt tcacttgtt ccctccagc 480
 cccaaacctt ttgtctctc cgtgaaactt acctt 516

<210> 519
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (170)..(170)
 <223> n is a, c, g, or t
 <400> 519

aatgcgaagg ctaagtgtca cccctttct ctgcctctgg ctgggccttg ctaaggcca 60
 aggaaagaaa gacattttt agggggcagc cagtccaaat gccaaaagaa gaccagttct 120
 tgccctgatt gtatgaaatt tgacattttg gcacttttt tttttttt ggccaatcag 180
 attttctatg ttctaaggac atggctctg tagaatagca cagacgtgga tgataaatta 240
 tccccagaag cagcatgaca gaatgcctcg gggagcactt ggaagggaaa ttgcagttct 300
 gttgaaatag aggaaaatcc cttggtaaag acacagcctg ttaggctcgt gtgggcctcc 360
 agtatgttca ccaggggaa 379

<210> 520
 <211> 466
 <212> DNA
 <213> Homo sapiens
 <400> 520

agtagtcct gtggttagc ccaccaatct tgatgactaa aagtagctga tgcattgtgc 60
 atatgatgct tgagatggtt ttgcaaaag cagaaatgc tgcaaggtaa tcacaataga 120
 taaaagtgtt attttaaac ttgaaataa atggatgtaa ctgtaccttg gtacagcttt 180
 tcacttgttt agtttttaa cgtagtata atctgaata ataaatgtt gccaaattca 240
 atgtagaaag aatgtgacaa cacaccttgg gtagttctgc ttgtgtttt gcatattgta 300
 aaagcagtg cagagctaaa aagaaagaaa tctttctaa cagtaaatta ttgtcttta 360
 gttgctagt ttactgaga gttgacctt cctgtgcag tttttgtc taaacttga 420
 taaatacaa ttgtgtaatg tctctccctc ctacattgta acaatt 466

<210> 521
 <211> 547
 <212> DNA
 <213> Homo sapiens
 <400> 521

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tggggacttg tggatcattc ctctccct gcaggagctt cccaagctgg tcacagagtc   60
tcttgggcac aggttataca gaccccagcc ccattcccat ctactgaaac agggctccta   120
caagaggggc cagggaatat gggtttttaa caagcgtctt acaaaacact tctctatcat   180
gcagccggag agctggctgg gagccctttt gttttagaac acacatcctt cagcagctga   240
gaaatgaaca cgaatccatc ccaaccgaga tgccattaac attcatctaa aaatgttagg   300
ctctaaatgg acgaaaaatt ctctgccat ctttaataaca aaataaacta caaattcctg   360
acccaaggac actgtgttat aagaggcgtg ggctcccctg gtggctgacc aggtcagctg   420
ccctggcctt gcacccctct gcatgcagca cagaagggtg tgacatgcc ctcagacca   480
ctctgtccc cactgaacgg caactgagac tgggtacctg gagattctga agtcctttg   540
ctgtggt                                     547
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<210> 522
 <211> 502
 <212> DNA
 <213> Homo sapiens
 <400> 522

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gcatcaggct aagaccctgt gtctccacc atgcactcac ccctagccct ggtagctga   60
cagttagctg tggggaacac agctacaacc ctacctggc agggacctga gagcatctca   120
ggaggggcag cgcattgtgt catgtgctgt gtgagtgage acaccctgtg gcacactcat   180
acacatgtgc acacacacgc actctcccg ctcaggggcc tggaggtctg gctgagcccc   240
tggggaaagg tgattcttt catctccctc ctccaggctg gtagtgcctgg agtcagggtg   300
cgaggccaca ttgctggctg cccctcttt gtagctcta taaagggcc acacctggtg   360
gatactggt tgagcgtgtg gtctctgcc cagcctgtcc ttgtcacgat cacaggcctt   420
gctttttaa caatgatgac cccggcctgt ctcatctct gaagaggaaa agtcaaagt   480
ttgctgtggc tccatatttc aa                                     502
```

<210> 523
 <211> 387
 <212> DNA
 <213> Homo sapiens
 <400> 523

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gtgatagaca cttegggtgg acccctcgac ctcatggctt gcagagtggg tgcggccagc   60
acccgggaga tggcgatgct catagctcag gccttacaga cgattaacta tgggcgggat   120
gatgagaagt gactgcggct gaggcaaagc tgctccaag gcctccctgg gctgctgtgg   180
gtctctgggg aggtggcct cgtggccac gctccatgcc agtggctcac gctctgctcc   240
tggtacccc agaggagtt gtcacgtac agtgagtggc tggccttta aatcgacgtc   300
tctctacca ggatttggt tttagctgtt tctctctta atctcacga gccttttca   360
ggtagtagc tgttctctg tcagggc                                     387
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<210> 524
 <211> 320
 <212> DNA
 <213> Homo sapiens
 <400> 524

gtgaatttc catgaatgtt tttaatatc tcattcaac attgtgat atgctactaa 60
 aaacctttc atatacatc tacctcattt caagtgaatt atttaatatc tttctctc 120
 ttccaaaaa ttacaggaat gtttagtgta attggattc gctatcagtt cccatcctta 180
 agttttgata ttcaatatc gatagataca ctgcatctt ggcatctaa gatttggtta 240
 caaatgtgca aattatttag agcatagact ttataagcat taaaaaaac taatggaggt 300
 aaaacctaaa tgcgatgtga 320

<210> 525

<211> 543

<212> DNA

<213> Homo sapiens

<400> 525

ccaggactac agaataccat cccctggtag cgtgtagttg ccgaagtcca gatctgcat 60
 ggcaaaacgg aggctgtggg ccagggtccac atctcttcc aggatgggat ggtgacgttg 120
 actccaaaca aggggtgtgt ggtgaatggt ctccgagtgg atctccagc tgagaagtta 180
 gcatctgtgt cgtgagtcg tacacctgat ggctccctgc tagtccgcca gaaggcaggg 240
 gtccagggtt ggcttgagc caatgggaag gtggtgtga ttgtcagca tgaccatgct 300
 gggaaactgt gtggggcctg tggaaactt gacggggacc agaccaatga ttggcatgac 360
 tcccaggaga agccagcgt ggagaaatgg agagcgcagg acttctccc atgttatggc 420
 tgatcagtc tccaccagga acgaagatt cctgaagaag acctggtccc tctggaggtt 480
 gcggtggctg aaggatgcat catgtgctc tacctgctc taccgttt ctgggtcaca 540
 gag 543

<210> 526

<211> 541

<212> DNA

<213> Homo sapiens

<400> 526

tcatacttc ctctggtt tatgtattg tagactatgc agctttcat taaactgcaa 60
 gtatatacaa gacagatctg aaattaggcc tgagtgtcc gatccaccac tgtactagta 120
 aataaaaac cacctacct ttatgtggaa aattatgtc tattgagtaa ctttagctc 180
 tttttaaa aatgggtgaa atttaagtgt ctttttatg agaatgacac atgaagagat 240
 ctgagagcaa tctcatgtag tcttccatga acctgcaatt gtttggtatg cgtcagcatt 300
 ttcaaattc caggttgat ctgagctgc tttgatcac tcaggcatac taatggattc 360
 atttagatgg gtccaagctg cagtcctga gcaataacag actaccagc atactgcagt 420
 ttacgcagt cttagtaaat gagattgtg gaactaagtt attagttacc tgaggcttct 480
 taagaaagtc ttcttttg accagttgat gtgaaagagg gagcatgtga cacagccagt 540
 a 541

<210> 527

<211> 543

<212> DNA

<213> Homo sapiens

<400> 527

gacagtttga cttgaatgca acagcaggaa aattttgcaa gttacataat tgtatataca 60
 gtaggtttc ttaagtctc tcggttcac ctttgaatt tgtgtgtga tctgtatg 120
 tgcaggcttt tggagactat tctacaggc agtatgtcag tcatcaaaga aaatgctgc 180
 acctgccatt gttgtattg tgggtattt tagttgtatg tatgtaaat catcagtgtg 240
 tagattgcat atcagtgtat ggtacatga catcaaaatt attttgtcc ttaacagtg 300
 tgatatgaaa agcaagtaca acctcatagg actgattata taatgaagtt gttgagagta 360

tatatagtgg tattgtttta ttaacttaa actcaaataa tattttgatt aaaattttta 420
 ataagacttt atgctagaaa attctttgag ctttgaatca ccagggcataa aatgactttc 480
 aactaacctt gtgaatcttt tgcagtgtac tgtgtgcaat accaagggca tagctccctg 540
 taa 543

<210> 528

<211> 520

<212> DNA

<213> Homo sapiens

<400> 528

tcccagcaac aaactcctca tgataactgc acacaatctg aaaaccactg aaggacaagc 60
 caaccacagc agccaagccc actccttgca gcatgggtac tgggtggcaca ccagacagtg 120
 aactgcccc acaaaggcct gggccccgtgg gggctgctgc ctggcatgac atctctccag 180
 attctggct taaaaccaac ttccatccg agaagcctcc tcagtagtta ctctgctcat 240
 gagacagatc tgggtcccaa gccaggaaag gtgaacagaa accacaagtg tccagccctc 300
 ggtgctggag tggacgttaa ttgtcagcca ccagactgtc ccggcaccta cagagaatgt 360
 ttcacagttc tggcatttaa atcctttgat agtggattgt gctgctgtta gccttagttt 420
 cagtgttta caagtctgc ttattatctc attgtattt aggtatacaa aacagttgat 480
 tattcaccac gccaatatct gggctctctg atctcatgta 520

<210> 529

<211> 358

<212> DNA

<213> Homo sapiens

<400> 529

aaatgaaaag tccacttgt ctctctcag aaaaccttg ttgttcattg ttggccaat 60
 gaatttcaa aaacttgcac aaacagaaaa gtggaaaag gataatacag actgcactaa 120
 atgtttcct ctgttttaca aactgcttg cagccccagg tgaagcatca aggattgttt 180
 ggtattaaaa ttgtgttca cgggatgcac caaagtgtgt accccgtaag catgaaacca 240
 gtgtttttg tttttttt agttcttatt ccggagcctc aaacaagcat tataccttct 300
 gtgattatga ttctctctc tataattatt tctgtagcac tccactga tctttgga 358

<210> 530

<211> 451

<212> DNA

<213> Homo sapiens

<400> 530

gacaagctac gtggagcctg gttcaggctc ttttagtgag tctaccatta ccatttcct 60
 gtatattccc tctgaacagc aatttgatcc acccaggcct ttagagtcag atgtcttcat 120
 tgaagataga gccgaaatga ctgtgtttgt acggtcttc gatggatttt ctagtgccca 180
 aaagaatcaa gaacaacttt tgacattagc aagcatttta agggaagatg gaaaagtgtt 240
 cgatgagaag gtttactaca ctgcaggcta caacagtcct gtcaaattgc ttaatagaaa 300
 taatgaagtg tggttgattc aaaaaaatga acccaccaaa gaaaacgaat gagaaaaatg 360
 aaaggaagt ctgctgtcag aggcacaaa tctgtttatc atagacatca acatgacctc 420
 taagtaaaagt gcgtgtctag tctctctat t 451

<210> 531

<211> 440

<212> DNA

<213> Homo sapiens

<400> 531

gactcccgag ggctagggct agagcagacc cgggtaagta aaggcagacc cagggctcct 60
 ctagectcat acccgtgccc tcacagagcc atgccccggc acctctgccc tgtgtcttcc 120
 atacctctac atgtctgctt gagatatttc ctcagcctga aagtttccc aaccatctgc 180
 cagagaactc ctatgcatcc cttagaaccc tgcacagaca ccattacttt tgtgaacgct 240
 tetgccacat ctgtcttccc ccaaaattga tcactccgcc ttctcctggg ctcccgtage 300
 aactataac atctgctgga gtgtgtgctg tgcaccatac ttcttgtac atttgtgtct 360
 cccttccaa ctagactgta agtgccttgc ggtcagggac tgaatcttgc ccgtttatgt 420
 atgtccatg tctagcccat 440

<210> 532

<211> 225

<212> DNA

<213> Homo sapiens

<400> 532

aagcagtga ccgcacttat ggtaatcagt ttgtataac taaaataat taaataaatg 60
 aataaatcca aaacaaacat gcagtacttt tgtgtatgg gattggtggg ctgatttaca 120
 tgtatggta ctaaaagta ccagcatgtt aactttatta caattgtat tactttctct 180
 gtagttccta atggattcaa ttacggactc tggatatttg cactt 225

<210> 533

<211> 436

<212> DNA

<213> Homo sapiens

<400> 533

tcctgatgtg ccagaacttc gacctttct ctgagagaga tgatcgtgcc tataaatagt 60
 aggaccaatg ttgtgattaa catcatcagg ctgggaatga attctctcta aaaataaaat 120
 gatgtatgat ttgtgttgg catccccctt attaatcat taaattctg gatttgggtt 180
 gtgaccagg gtgcattaac taaaagatt cactaaagca gcacatagca ctgggaactc 240
 tggtccgaa aaactttgtt atatataca aggatgttct ggctttacat ttattttatt 300
 agctgtaaat acatgtgtgg atgtgtaaat ggagcttga catattggaa aggtcattgt 360
 ggctatctgc atttataat gtgtggtgct aactgtatgt gtctttatca gtgatggtct 420
 cacagagcca actcac 436

<210> 534

<211> 127

<212> DNA

<213> Homo sapiens

<400> 534

agataccccg aagccatggc aagcaagggc ttgcaggacc tgaagcaaca ggtggagggg 60
 accgccagg aagccgtgtc agcggccgga gcggcagctc agcaagtggg ggaccaggcc 120
 acagagg 127

<210> 535

<211> 517

<212> DNA

<213> Homo sapiens

<400> 535

ataaaatgtc tacgtcttcc tccagtttct gagccctatg cacattggct tgtgggcttg 60
 ttcttctgc caaatgatca gagagggaac attccattta ttgtagtgg atttctctg 120

gagggcatgt acccacacta aataccaact gctcttctc agctgtagtc cccaacatca 180
 gacttggcac gtggtggaca ctaacacaca ggcactcaat gaatgagtga aggaaataaa 240
 agtcaccccc cgttgggtgag aaggtgccta tccccctgag tcctcagtgc aggaccagtg 300
 gatgaaaggc aaggtaaaga ggccaagat aggctggctt cccccgttca aggtatagtc 360
 tgcctttaag ggagttttag aaccaacatg caagacattg aaagaaatct tgcaagagcc 420
 attattgact tagatccaaa acagcctctc tcattgtctaa aaaggcacag aattttgcag 480
 atctgaggaa gagggatgca ttacctttt gcttctt 517

<210> 536
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (473)..(473)
 <223> n is a, c, g, or t
 <400> 536

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 atcaacagt ctgcagtga gaaactgat cgttggttt ctttaatgc aaaacttca 180
 taaaaacct tcactttcc tgcattgat tatatgctg atacaccaa aaagaaaagg 240
 ggaggggcac caattccct acactccagt ggctccatca ctttaaaaa tatttataaa 300
 atagttcaa aaatctgata tctgaaaagc aatccaagcc tgtgtaaatg ggaatcactg 360
 ataagatca tcattgtat cagcttggct tggacatgaa aaattgatc tctttatgc 420
 actccttga cctggacaaa ttcaatcccc ggtacttaag tcactgcc aancctcgg 480
 ccctgactat tgtcttgatt gctgttctt tc 512

<210> 537
 <211> 245
 <212> DNA
 <213> Homo sapiens
 <400> 537

ctgtcacaaa tagcagcacc actttggatt gattttgctc tccaggacat cagcacatgg 60
 ccctgatcag cactaccaca tccaacata agtcactgaa aaacacttaa tatttatgag 120
 ttgtaatga caagggacat tgtataaagt actatttgc agattcatgc ctcaaaagt 180
 attataaaca gacctttatt aaacacatct tgaagatgt agaagtcct ctatagtcta 240
 gtata 245

<210> 538
 <211> 435
 <212> DNA

<213> Homo sapiens

<400> 538

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caacgtctaa ctggacttcc caagataaat ggtaccagcg tcctcttaaa agatgcctta   60
atccattcct tgaggacaga ccttagttga aatgatagca gaatgtgctt ctctctggca   120
gctggccttc tgcttctgag ttgcacatta atcagattag cctgattctc ttcagtgaat   180
tttgataatg gcttccagac tctttgcgtt ggagacgcct gtaggatct tcaagtccca   240
tcatagaaaa ttgaaacaca gagttgttct gctgatagtt ttggggatag gtccatcttt   300
ttaagggatt gctttcatct aattctggca ggacctcacc aaaagatcca gcctcatacc   360
tacatcagac aaaatatcgc cgttgttct tctgtactaa agtattgtgt ttgctttgg   420
aaacacccac tcaat                                         435

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<210> 539

<211> 498

<212> DNA

<213> Homo sapiens

<400> 539

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caggaggcca tgactacatc acagccaggc ggcattccct gccacagtgg cggcttgaat   60
catcaagaaa tggataaatg gggctttagt aatcaggct tgcaggctca aagctgcaat   120
ctgcccactc tcaggtagtg agactttgtg ggcctcagac accaggaaga aagttgggat   180
acagtcatth gagttaaana gggaatgacc cctcagaana ccacattagc agtgttactc   240
ttggaactgc ctttactttt aacgctctct gttctgaaaa agagggtgtt ggttacgtgt   300
gagccaacat caggtttgt tagctgtgat ttacctttgt ccgtttaaana gacttcacgg   360
agccattctg tatacaaggt gtgctcttcc caatgtagaa ggggttatgg aaaagggtgc   420
gatcctttgc tgtaactgg agagaccagt cccaaacaga ggggaatttt aagcccttct   480
catcacccaa ttggatgt                                         498

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<210> 540

<211> 474

<212> DNA

<213> Homo sapiens

<400> 540

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cctgaggggc ctcttatggg ctgggttcta cccaggtgct aggaacactc cttcacagat   60
gggtgcttgg aggaaggaaa cccagctctg gtccatagag agcaaaacgc tgtgtgccc   120
tgcccacctt ggcctctgca ctccccgtct ggggtgtggcg cagcatattc aggaagtcca   180
gggcccctggc tcaggtgggg tcactctggc agctcagaga ggggtgggagt gggccaatg   240
cactttgttc tgctcttcc aggtctggag agcctttcag ggggtgggaca ccctgtgatg   300
gggcccctgcc tcttttgta ggaagccgct ggggccagtt ggtccccctt ccatggactt   360
tgttagtttc tccaagcagg acatggacaa ggatgatcta ggaagacttt ggaaagagta   420
ggaagacttt ggaaagactt ttccaacctt catcaccaac gtctgtgcca tttt       474

```

<210> 541

<211> 437

<212> DNA

<213> Homo sapiens

<400> 541

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tggcactcgg tggcagtcac cataaaacaa cacatcctgc acctggaact ggacacagac   60
agtagctaca cagctggaca gatccccctc ccacctgcca gactcaaga gccactacac   120
cttggagggt ctccagccaa ttgacgaca ctgaggatcc ctgtgtggaa atcattcttt   180
ggctgtctga ggaatatcca tgtaatcac atccctgtcc ctgtactga agccttggaa   240
gtccaggggc ctgtcagtct gaatggtgt cctgaccagt aaccaagcc tatttcacag   300

```


caaggaaatt caccttcaaa agcactgatt acccaatgca cctccctccc cagctcgaga 360
 tcattcttca attaggacac aaaccagaca gggttaatag cgaatctaatt tttgaattct 420
 gaccatggat acccatc 437

<210> 542

<211> 428

<212> DNA

<213> Homo sapiens

<400> 542

atctctgcct gtgcttatcc agataagaag accaaaatcc cgctgggaaa aaccagggcc 60
 ttgacattgt tattcaaatg gcccctccag aaagttaat gatttccatt tgtatttg 120
 ttgatgatgg accacttgac catcacattt cagtattcat agatgactgt cacattttaa 180
 aatgttccca cttgagcagg tacacaactg gtcataatc ctgtctgtgt aattcgatgt 240
 atattttcc aaacatgtag ctattgttg ctttgattt tgcttggcct cctttatgat 300
 gtgcattgcc ttgaaggctg aatgaacagt cctttcagt tcagcagatc aacaggatgg 360
 agctcttcat gactgtctcc agcaatagga tgatttacta taaatttcat ccaactactt 420
 gtgatctc 428

<210> 543

<211> 259

<212> DNA

<213> Homo sapiens

<400> 543

atgttttgcct aatgctcgta tctccttgat tacataatgt tagtagcact gagaccccca 60
 tggtaatgta acttaattat aagctatgtc actaccctcc tgtaaaatac tattggacag 120
 acacagaggg acccttggct cctgtgtcig gtccacacac cacagaagct tgtattatca 180
 gtgaatataa atgtactaca ttgcatgcc ttttgggtt gccttaatc ttacctcatt 240
 tgcacctat cgatctgga 259

<210> 544

<211> 446

<212> DNA

<213> Homo sapiens

<400> 544

taacaggcac cttatctact cattagtga gagataattg gattacacag gcaggcttgt 60
 ttactacatc cagaatgtag aaactgcttt ctcaacatc ttggttctag cttagtaataa 120
 caatataatt ctttggcaga tattcagaat aacattttaa actacatttt cttagaaaat 180
 tgcattcttg tagtgagcag tgtatggctt cttttgttca gaatttaaaa ctgataacca 240
 atgaaagcct ttctcttat tctctaccg tcatttcat gataatctga agctaatatg 300
 acaatattta aatactaagt ggtactaggg aactacaaga atactgtaa gccttaagcca 360
 ttgttatcac tgcatttag catttaataa caaaactata cagaattatg tgcataccaa 420
 tgaatgtttt gaccatcta gttaaa 446

<210> 545

<211> 563

<212> DNA

<213> Homo sapiens

<400> 545

ccatagcaac aagtgcactg cccctcagac tcaagatccc agataccaga gctggaggag 60
 tcatagggca ttactggtag gcaggaaaac tgagggtcga acaaatggaa gaatgcggtg 120

atcatagacc aaagacacac agataattaa ccccatgtgt ccaccaggc caaagttctt 180
 cctgctaccc cacagtggat gtcaggcag atggtcccca catgatgggg aagcagaggg 240
 catagtgtgg tttgtggga ctgttcatg tttgtagtg tgggtcaac agtgccaaag 300
 gaaacactag ggaaaagttg gtgaaacatg ccagctagca ggaccagtaa aggcataatc 360
 aggcatttgg caaagcttgc ttttctaatt caatgatagg ttctaataagg aaattttga 420
 agatttttta aaacaatgtt atagtggcac ttcccagta tggataaat aacatgcatt 480
 ctttttcaa tatactgtca tattcagatg tcattaaaat aaatggatga gtcacagagg 540
 agctatcaga tgctctcatg act 563

<210> 546

<211> 484

<212> DNA

<213> Homo sapiens

<400> 546

tatgtgacgc tggaccttt cttacccaa ggattttta aactcagatt taaaacaagg 60
 ggttacttta catcctacta agaagttta gtaagtaagt tcattctaa aatcagaggt 120
 aaatagagt cataataat ttgtttta tcttttgtt tttcttttag acacattagc 180
 tctggagtga gtctgcata atattgaac aaaaattgag agctttattg ctgcatttta 240
 agcataatta atttggacat tatttcgtgt tgtgttctt ataaccaccg agtattaaac 300
 tgtaaatcat aatgtaactg aagcataaac atcatatggc atgtttgtc attgtttca 360
 ggtactgagt tcttactga gtatcataat atattgtgt ttaacaccaa cactgtaaca 420
 tttacgaatt attttttaa acttcagttt tactgcattt tcacaacata tcagacttca 480
 ccaa 484

<210> 547

<211> 402

<212> DNA

<213> Homo sapiens

<400> 547

acatttgata gttttcacc ccttggett atttatata aactttgtt ttcagcagt 60
 tetgaacttt ttatgtttt ataaatggc caaaaaatgc ctgttcaga agttttgaa 120
 ttcagtgc atcctcttga tttgtctggg taaaacat tcttttga tgaaatgtt 180
 tgacttagga atcattttat gtactgttc tacctggatt gtaacaact gaaagtacat 240
 attcatcca aatcaagcta aaattttt aagttgatc tgagagtaca ggtcagtaag 300
 cctcattatt tggaaattga gagaagtata ggtgatcgga tctgttcat ttataaaagg 360
 tccagtttt aggactagta cattcctgtt atttctggg tt 402

<210> 548

<211> 503

<212> DNA

<213> Homo sapiens

<400> 548

agttagaaca ttgctgtca gccacatatt gagatgacac taggtgcaat agcagggata 60
 gattttgtg gtgagtagtc tcatgccttg agatctgtgg tggcttcaa aatggtggcc 120
 agccagatca aggatgtagt atctcatagt tcccaggatga tattttctt attagaaaaa 180
 tattataact catttgtgt ttgacactta tagattgaaa ttcttaatt tattctaat 240
 tttaagtgtt tctttggctc cagtgcctta tgttgtgtt gttttggat ggtgttacat 300
 attatatgtt ctagaacat gtaatcctaa attaccctc ttgaataata tccctggatg 360
 atattttta tcataaatgc agaataatca aatacattt aagcaagtta agtgcctcc 420
 atcaattctg tattccagac ttggaggat gtacagttgc tgtgtgtga tcaaacatgt 480

ctctgtgtag ttccagcaaa tca

503

<210> 549

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (331)..(331)

<223> n is a, c, g, or t

<400> 549

ggactagagc aacatcgtgc tgcccaaagg actaacctat gcaaactagt tcacatttta 60
 gtggatgtcg cagttaatgt gtaataagac attatttccc ctgcataatg tacaacagca 120
 ttgaaatgac acattaagcc tagcatcaca ttgtatagta cagtcactca caaacccctc 180
 aaggctaccc taatcattaa cattaatatt tgtttaaag caaatcaccg atttatctat 240
 tgaaactact taaatgacgg caaaccagga atgacagatg gctgtgtcag caatggcttt 300
 aatgtgttcc ctgcaagtgg tctcctatga ntagaactgc gttctcaaat gcaactctct 360
 cagggtctta atattctgtg ttttctctct gtatttgtaa aacattataa cacattaatt 420
 tctatctct acacatttgg 440

<210> 550

<211> 505

<212> DNA

<213> Homo sapiens

<400> 550

gtcaaggcat tgtatgttc ttctgtggtt attattctgt gatgcttaga ctacttgaac 60
 ccataaactt ggaagaatct ttgagcaaat ttctcagtt gtctgtatga cttcagtata 120
 ttctgtggaa tgccatagga tttttgtgc ttgatacatg gtatccagtt tgcatagtat 180
 cacttctttg taatccagtt gctgttaaga atgatgtact ttaaaggaaa agagaaaact 240
 gcatcacagt cccattctcc agtgtccatg caatgaattg ctgagcattt aggaagcagc 300
 accaagtcta ttacaggcat ggtgtgaaac ttgatgtttg acctgtgac aaaattgaac 360
 cattgtacag tttgcttct gtttgcttca aaatatgtag aattgtggtt gatgattaat 420
 ttgcgagact aactttgaga gtgtaacagt ttgaagaaa acattgaatg ttttacaat 480
 gaaggggctt cacggaatgt tacaa 505

<210> 551

<211> 476

<212> DNA

<213> Homo sapiens

<400> 551

ccaaatttca ttccagccac ttctgcagga tcctactgc caacctggaa tggagacttt 60
 tatctacttc tctctctctg aagatgtcaa atcgtggttt agatcaaata tatttcaagc 120
 tataaaagca ggaggttacc tgtgcagggg gctggcatca tgtatttagg ggcaagtaat 180
 aatggaatgc tactaagata ctccatattc ttcccgaat cacacagaca gtttctgaca 240
 ggcgcaactc ctccatttcc ctcccgcagg tgagaaccct gtggagatga gtcagtgcc 300
 tgactgagaa ggaaccgacc cctagttag agcacctgc agtccccga gaactttctg 360
 attcacagtc tcattttgac agcatgaaat gtcctcttga agcatagctt tttaaatac 420
 ttttcttct tactctctcc tctgactcta agaattctct cttctggaat cgttgg 476

<210> 552
 <211> 493
 <212> DNA
 <213> Homo sapiens
 <400> 552

aggaaataac ccagttctgc accactgggt tttgtagcta tctcgtaagg ctgctggctg 60
 aaaactgtgt ctatgcaacc ttccaagtgc ggagtgtaa ccaactggac gggagagagt 120
 actgctccta ctccaggact ctacaaaagc tgaatgagctg tacttcagaa aaaaataata 180
 atttccatgt tttgtatata tctgacaaaa ctggcaacat cttacagact actgacttga 240
 agacaacctc ttttatattt ctctatttct gggctgatga attgttttc atctgtcttt 300
 tcccccttca gaattttcct tggaaaaaaa atactagcct agctgggtcat ttctttgtaa 360
 ggtagtttagc aattttaagt ctttcttgg tcaacttttt ttaaatgtga aaagttaggt 420
 aagacacttt tttactgctt ttatgttttt ctgtcttgtt ttgagaccat gatggttaca 480
 cttttggttc cta 493

<210> 553
 <211> 481
 <212> DNA
 <213> Homo sapiens
 <400> 553

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 tgagaactgg tactctcagt gtgttctgtg catcttgggt ctagtttga gaagcaggtg 120
 tgtctcttgc ctctgcttgc ctctactgc acactcagca cccaggactg gaatcaccga 180
 ctactgaatc tctacatgt attgtctgcta ctcaagctc ctccacttga aaccttatga 240
 ttttccaagg ggagatggga cagtgtcacc taaatatcc gaattgttgg ccttctgaga 300
 aaagagcttc tagtaattga accatgggtt tcccagcttc tggagggttg gccgtgggct 360
 gtgtacatgt gtgtgccag gggtagtgtt ttctcaggat tctaacgat tcaaattacc 420
 gttgagtata tataaagaat cgagtctctg tatggaagaa caaatgtgtg cattcacccc 480
 c 481

<210> 554
 <211> 377
 <212> DNA
 <213> Homo sapiens
 <400> 554

ttgaaagtgt tgggtcagct gaccaggtag aggattcaag actcaatgtg gaaaaaatat 60
 tttaaactac tgattgaatg ttaattgtca atgctagcac aatattccta tgcgtcaata 120
 cattaaaata actaagcaag tatatttatt tctagcaaac agatgtttgt ttcaaaaata 180
 cttcttttct attattgggt ttaaaaaagc attatccctt tatctcaca ataagtaata 240
 tctttcagtt attaaatgat agataatgcc ttttgggtt tgtgtggtat tcaactaata 300
 catggtttaa agtcacagcc gtttgaatat attttatctt ggtagtacat ttctccctt 360
 aggaatatac atagtct 377

<210> 555
 <211> 482
 <212> DNA
 <213> Homo sapiens
 <400> 555

gagctgactg acatatcttt aaatactttg tactaacttt atcacactta ctgtgtcata 60
 gaatatcata cagttttatac gctcatagtt ctcttgtgaa cacttcaaac atcgctaagc 120

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attgatctg gccatgtata tggtagctgt gttttaattt gagaatcttg agggtagagc 180
cacaaatttc aattcttaca ttccatttg caaagtgact agagaaaaag aaatcagctt 240
aatgaggtta ttaagtaatg tttagagtg taggtattaa ctagaatata aatccttaga 300
aattgtcttt ataccttcaa aaattatact atgcatttat catagaaatg tgattacaaa 360
gaagtctgac taccatgtct ttaaacaat ggcatctctc aacttttctt ccttatgggg 420
ctacatttgt tcattccag cagtagcata aactacggg gacatggtag acttgtctct 480
aa                                     482

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<210> 556
<211> 515
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t
<400> 556

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aattgccaca ttctctatg gcattaaaaa tttaacaaa acataatttt aatggctata 60
ttatattcca ttaatggat gcaactcang ttatttaac cattcccatn gttgtaact 120
atttaggttg ttctaatgt tcattattat aaagttgcag aaatttggtg tacataaac 180
tgtctccata taattgatta ttaggatata ttcccatgaa ggattcnttt ttttaaaaaa 240
atgtgaaatn tcattctgta cttacacctt tcatgnaaag ggatttctg cttttgtact 300
gcatgggtgg cagttgtgag gaaaagccag tcaaatgacc ttttacaaa agaaatgcag 360
tggtcacttc agttgagagt gactttttaa tacaacaaga tcaactagaa gaattcaact 420
gtctcaagaa tcaaggtacc ccaatatatc tcgcaattcc aaactttgtt tgagggactc 480
gttatccagc tcttggtagc cacacctgca atgta                                     515

```

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<210> 557
<211> 430
<212> DNA
<213> Homo sapiens

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<220>

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<221> misc_feature
 <222> (43)..(44)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (120)..(120)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (358)..(358)
 <223> n is a, c, g, or t
 <400> 557

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gggtccatct gtagcaaatg ggttgagtgt gtcagtatgt ggnntnggtt actgtgtatt   60
cgccaggaat caccgccgata ggctgccacc ctattagggtg atacctgttt aatatgttgn  120
ccaggtagac tagtagttgc atcagtttgc tgtaacaagt aaccagtgcg gtaacacagt   180
ggtgaagcag gtcaggggag gtcaggagga tgtctgagag aaagaagtcc gggagatgaa  240
tggtgtctta ggaaggagga tgcagtgcga cggttagtgt ttgagcagag ggcagacttg   300
taaagtacct gtagtgtaaa gaatgtgggg acccgattag cagaaagggtg ttgcacnta   360
ctttatacaa aatacagaat actttatatt ggaagtgtgaa gaaatgaacg tggactttta   420
cacatgtgca                                     430
  
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<210> 558
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (137)..(137)
 <223> n is a, c, g, or t
 <400> 558

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ctctcatagc gtagacctag ggaagggatg ggaagattgc ccagtcctccg atggctgcgc  120
acacaggagg cggcgngca caaggcaagt gagtttgac tgcagcccc agaccgtaag   180
cttggtaca ctgatgtttt tctttactaa ggatactatt caaaaattaa cattttcatc   240
tcagtaagtt tttagaacat caaaatgttt tctgagctcc aagtggctag gttgtaaaag   300
ttttataata atttgcaatt aaaatacatg atacatatta atccattaaa gactagtggg   360
aatgtatcag ccagagtagc aagtaatttt tgttttataa atcatagtat ctgtcatctt   420
gcagtattac caatgct                                     437
  
```

<210> 559
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, or t
 <400> 559

gtaatgaaga gctaactgtg ttataatcat ctgtctttg cctgaattng gagaaagtat 60
 nataattaag ttcccagtat cagaaatgtc cttacataag attaaaaat ctgtatgact 120
 aataccattc tatgagaaag agtagttata tgcccagact gtattaattt actttagaaa 180
 ctaatgttg aagtaatgga aaaaatttta aattataaag ctaaggtgca ataacattg 240
 ctacttatt atagaattat ttgaagaatt ttgttttga agtaatgctt taaggagtat 300
 aagatattca agataaatta tactataaaa tgattttatt gaaagttgaa ggttacacaa 360
 attgttttag gtatgagcag aagaggttaa ggtatttcta aaggtaacat atagtcaaga 420
 gtttcctcaa aatagtattt tggagaagaa tcagaatgtc tgtgtattc ttgtctgtt 480
 ctatgttgc ttatagctct gactaaatgt gtttaccta 519

<210> 560
 <211> 412
 <212> DNA
 <213> Homo sapiens
 <400> 560

acagccacag ttatcctga accgcaaac aaagaagcat ttgtccgctc ccagatgtat 60
 agtactgatt atgaccagat tctacctgat tgttattctt ggcctgaaga ggtgcagaaa 120
 atacagacca aagttgacca gtaggataat agcaaacatt tctaactcta ttaatgaggt 180
 ctttaaacct ttcataattt taaaggttg gaattcttta taatgattca taagacactt 240
 agattaagat ttacttttaa cagtctaaaa attgatagaa gaatatcgat ataaattggg 300
 ataaacatca catgagacaa ttttgcttca ctttgccctc tggttattta tggtttctgt 360
 ctgaattatt ctgcctacgt tctctttaa agctgttgta cgtactacgg ag 412

<210> 561
 <211> 433
 <212> DNA
 <213> Homo sapiens
 <400> 561

ggagctgcta tgaagtacct ttcttatgtt gctaggctac tgtttctgaa agccctggat 60
 ctctttgcac caaaaatggt ccagatagac tctttttaag gatcttggt gctttttact 120
 agaaggttgc ttttatgagc atatttatac tgctgaagga tgagtgttaa ttttaattaa 180
 ctttgccgtt tttagagaa aactattcac aagataaatt ccaagtctt tcacctgtca 240
 ggcattgata ttttaatatc tgtttggata gtcagaagta gaatacataa ggtaaaatat 300
 gagttgttac tttgtttctt cgatgtcata ttttatgtgt aatatatatg taaagggcca 360
 ttcttaagtt ctctccttaa actaatgct gtcaagtgtt agatgtgtgc atgtgaactt 420
 gttgcactgc aga 433

<210> 562
 <211> 490
 <212> DNA
 <213> Homo sapiens
 <400> 562

aatactctga gtttcatagt gattgaggca taactatcaa tcacaaaagt atattcaaaa 60
 attatatttt gaacaactcg aatcactcat ttgttccat attaaaatca caaactcatc 120
 cattaatgta gataaagcac tggttggata tgagatgtag caaattccaa tacattattg 180
 gacttccatt tggatcata tgggatactg ctggcttat cctgtccctc ctccaggtag 240
 agagaccaca tgcaggctca acataacata agctagaaaa attagatgac tgaatttcta 300
 tggcatattg ataataaaat tcattccatt tgctgattgt ctgaaatttt ctagaatact 360
 aataaaatac atactataga ttctttatta gtgaagtatg cactaatcaa tactttgaac 420
 acaaagcctg tggtactgat ttggccggtt tgtgaagaaa catttatctt tgtacgttct 480
 tctattgtgc 490

<210> 563
 <211> 475
 <212> DNA
 <213> Homo sapiens
 <400> 563

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 gcccttcagc accactgcag gataaccgaa ctcaaggctt aattaacggg gcactaaaca 180
 aaacaaccaa taaagtcacc agcagtatta ctatcacacc aacagccaca cctcttctc 240
 gacaatcaca aattacagta agtaatatat ataactgacc acgtcaccct tcattccagtc 300
 catactgata tttttgcaag gaactcaatc ctttttaat catccctcca tatccccaa 360
 gactgactga actcgtactt tgggaagggt tgtgcatgaa ctatacaaga gtatctgaaa 420
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<210> 564
 <211> 306
 <212> DNA
 <213> Homo sapiens
 <400> 564

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 tccgttattt cagtgaactg gtcccgtggg tctagccttc ccccctgtgg acaaaccctc 180
 attgtggctc ctgccaccct ggcagatgac tcaactgtgg ggggtggctg tgggcagtga 240
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 ttctgg 306

<210> 565
 <211> 490
 <212> DNA
 <213> Homo sapiens
 <400> 565

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 cccggtgtc ttggaggacc cagtcctttg tgccttgga aaaaagcaca agcgaacccc 120
 agccctgatt gccctgcgt accagctaca gcgtggggtt gtggtcctgg ccaagagcta 180
 caatgagcag cgcatcagac agaactgca ggtgtttgaa ttccagtga cttcagagga 240
 gatgaaagcc atagatggcc taaacagaaa tgtgcgatat ttgacccttg atattttgc 300
 tggccccctt aattatccat ttctgatga atattaacat ggagggcatt gcatgaggtc 360
 tgccagaagg ccctgcgtgt ggtggtgac acagaggatg gctctatgct ggtgactgga 420
 cacatgcct ctggttaaat ctctcctgct tgggtatttc agcaagctac agcaaagccc 480
 attggccaga 490

<210> 566

<211> 491

<212> DNA

<213> Homo sapiens

<400> 566

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aagcaaatag tgcctcagc tactgcagaa gaaaagtcct actgaggaaa agaaagtctt   60
gtgattttta aaggcaagtt ttcaagtgc ctcagatgac taccctctaa ttccattaaa   120
tcatactag gagcgtagt gagggtttc atagctttg gaaatacttt ggtctctgaa   180
ctgtaattag caagaagtaa aaacagaaac gtcaaagtc aaatgtttgc ttgttacct   240
ggaggactaa atgtagatgt ctttagtata cttgtatgt tcttaatat tggaagataa   300
tttgtgaat ctgtagattt ttttttca gtctacctt acaaattct tttctatgaa   360
taatagagga actcaaggca ctctgccact tgttaatgaa aggaagtgc gaggatttag   420
aaaagtacat gatccccaga ccacaacaaa ccaaacata aactcatgac tgtgtccat   480
ggcatagtc a

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491

<210> 567

<211> 501

<212> DNA

<213> Homo sapiens

<400> 567

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agaagatggc cggaactcg atcctgctgg ctgctgtctc tattctctcg gcctgtcagc   60
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cagtcactgg gtcaccagag ttgagagag tattcgggc acaacaaaac tgtgtggagt   180
ttatcctat attcataatt acattgtgga tggctgggtg gtattcaac caagttttg   240
ctactgtct gggctggtg tacatatat gccgtcacct atactctgg ggatattcag   300
aagctgctaa aaaacggac accggttcc gactgagtc ggggattttg gcctgttga   360
ccctctagg tgcctggga attgcaaaca gcttctgga tgaatatctg gacctcaata   420
ttgccaagaa actgaggcgg caattctaac ttttctctt cctttaatg cttgcagaag   480
ctgttccac catgaaggta a

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501

<210> 568

<211> 474

<212> DNA

<213> Homo sapiens

<400> 568

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agatcacaga gcagcaagtt catacaacat gcattgtctc ctctatctta gaggggtatt   60
cttctgaaa ataaaaata ttgaaatgct gtatttttac agctacttta acctatgata   120
attatttaca aaattttaac actaacaaa caatgcagat cttagggatg attaaaggca   180
gcatttgatg atagcagaca ttgttacaag gacatgggtg gtctattttt aatgcaccaa   240
tctgtttat agcaaaaatg tttccaata ttttaataaa gtagttattt tataggggat   300
actgaaacc agtatttaag ctttaaatga cagtaatat ggcatagaaa aaagtagcaa   360
atgtttactg tatcaatttc taatgtttac tatatagaat ttctgtaat atatttatat   420
acttttcat gaaaatggag ttatcagta tctgtttgtt actgcatcat ctgt   474

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<210> 569

<211> 444

<212> DNA

<213> Homo sapiens

<400> 569

gaaactgctg agacctatct ccccttcttg gggagagaat aagtacagc tgattaaagg 60
 cagagacaca ggactgcttt caggctcctg gtttattctc tgattgactg agctccttcc 120
 accagaaggc actgcctgca ggaagaagat gatctgatgg ccgtgggtgt ctgggaagct 180
 ctctgtggcc tcaatgccct cctttatcct catcttctct ctatgcagaa caaaaagctg 240
 catctaataa tgttaatac ttaatatctt ctatttatta ctactgctt actcgtaatg 300
 atctagtggg gaaacatgat tcattcactt aaaatactga ttaagccatg ggcaggctact 360
 gactgaagat gcaatccaac caaagccatt acatttttg agttagatgg gactctctgg 420
 atagttgaac ctcttcactt tata 444

<210> 570

<211> 464

<212> DNA

<213> Homo sapiens

<400> 570

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 tatttagaca ttataggtga gaattctgag cactcaactc atgtttggca tttaaagta 120
 aaaacaagtg tgactcagag gaccaaagaa atgtcagct atacatttat ctttatgaac 180
 tcatttatat tcctttttaa tgactcgttg ttctaactt tcctagaagt gttcttataa 240
 aggtctaagt tatccacagg ctgttgtctt attagtaaat gcaaagtaat gactttgtct 300
 gttttactct agtctttagt acttcaaaaat taccttttca tatcatgat ctgagtgcca 360
 tttgggggat tttaagaat ttgatgtatt tcaatacact gttaaaaatt aaattgttta 420
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<210> 571

<211> 499

<212> DNA

<213> Homo sapiens

<400> 571

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 aaggtcatca tcgattctac tttagaatga gagtgtgaaa tagacatttg taaatgtaaa 180
 acttttaagg tatatcatta taactgaagg agaaggtgcc ccaaaatgca agattttcca 240
 caagattccc agagacagga aaatcctctg gctggctaac tggaagcatg taggagaatc 300
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 ggcagcgaaa ggatgtaaac agtgctctgt gaatgattc caaagagaaa aaaagtgtgc 420
 cagaagtttg tcaagtcaac caatgtagaa agctttgctt atggtataaa aaatggctca 480
 tacttatata gcacttact 499

<210> 572

<211> 468

<212> DNA

<213> Homo sapiens

<400> 572

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 atgggccagc caggcaaggc tgccactgt aatccctctg actgctttgg ggccatgccg 120
 atggagcagc agtaccacc catgaaaacc atgaaggggc cttttgctg aaattcccca 180
 cctgcctttg gatgaaagac tccgttggga ataaatggcc aaagcttata ggactctgtg 240
 acaggttgtg aatgttttt tttttgtg ttgtgttt taattgctgt taatatttt 300
 taaataataa agaaacaaaa ctatctgcc ttcccttcc agtgggttcc tctggtgctg 360
 cagccagagc tccctgttgc cctcctttc ccgtttagtc ccaggaacaa aaagggcatt 420

tgggtacagg ggcataacc tgtaatccta gctattcaag gggctgag 468

<210> 573

<211> 406

<212> DNA

<213> Homo sapiens

<400> 573

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 gtgctgatgg agaaggagct accaggcttc ctgcagagt gaaaagacaa ggatgccgtg 180
 gataaattgc tcaaggacct ggagcceaat ggagatgccc aggtggactt cagtgagttc 240
 atcgtgttcg tggtgcaat cacgtctgcc tgcacaagt actttgagaa ggcaggactc 300
 aaatgatgcc ctggagatgt cacagattcc tgcagagcca tgggccagg cttcccaaaa 360
 gtgtttgtg gcaattattc cctaggctg agcctgctca tgtacc 406

<210> 574

<211> 535

<212> DNA

<213> Homo sapiens

<400> 574

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 actgtggaga aagagtttg tatatgtctg ataccgtgt tataacaaaa caaatTTTT 120
 tactatagt ttgttttc tacctgcaca cccaccagaa gagcaciaag caaggccatt 180
 gcaacaggca tttaaaaatt attatcaaac atgcacatgc ttgtacacac acacacacac 240
 acacacaaac aggggcattt gtaaagggtg ccttggatg taagatttat aatgtttaag 300
 gcaaggtgaa ggcattgcca agtgtgtgct gctcatagga ctagtgtata ttaactgaaa 360
 gttaacctga tgatttgta ttgtttgaac catatgctga ttgcttctg gtttctgtt 420
 agtgtgtct ctctgataag gggctgaaag attctgcac acacatcctc tgagacctac 480
 catgtcgac actttgttaa tgacaaact cactctacac tatacagtac cttgt 535

<210> 575

<211> 401

<212> DNA

<213> Homo sapiens

<400> 575

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 gaggggctga cttcaatcca tgtaggaaag taaaatggaa ggaaattggg tgcatttcta 120
 ggactttct aacatatgct tataatatag tgttaggtt cttttttt tcaggaatac 180
 atttgaaat tcaaaacaat tgggcaaact ttgtattaat gtgttaagt caggagacat 240
 tggattctg ggcagcttc taatatgctt tacaatctgc actttaactg acttaagtgg 300
 cattaacat ttgagagcta actatattt tataagacta ctatacaaac tacagagttt 360
 atgatttaag gtacttaag cttctatggt tgacattga t 401

<210> 576

<211> 396

<212> DNA

<213> Homo sapiens

<400> 576

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 gtgtgcaggt tccgatgta ttagatgta caagttata tatactata tatataattt 120

attgagtttt tacaagatgt attgtttgta gacttaacac ttcttacgca atgcttctag 180
 agttttatag cctggactgc tacctttcaa agcttggagg gaagccgtga attcagttgg 240
 ttctgtctgt actgttactg ggccctgagt ctgggcagct gtcccttgc tgcctgcagg 300
 gccatggctc aggggtggctc ctcttggggg cccagtgcac ggtggccaga ggtgtcaccc 360
 aaaccggcag gtgcgatttt gttaaccag cgacga 396

<210> 577

<211> 318

<212> DNA

<213> Homo sapiens

<400> 577

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 ttgaagtct gttcttatgc tctctgctca ctggttttca ataccaccaa gaggaaaata 120
 ttgacaagtt taaaggctgt gtcattgggc catgtttaag tgtactggat ttaactacct 180
 ttggcttaat tccaatcatt gttaaagtaa aaacaattca aagaatcacc taattaattt 240
 cagtaagatc aagctccatc ttattgtca gtgtagatca actcatgtta attgatagaa 300
 taaagccttg tgatcact 318

<210> 578

<211> 411

<212> DNA

<213> Homo sapiens

<400> 578

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 tggagaacga gcagctaggg aggtcttaaa tggctcggg aaggtgaccg agaaagacat 120
 ctgggtacaa gaacctgaat caaaggacgt tccagcggta gaaatcacc acacctctg 180
 ggaaaggaac ctgccctctg ttcttggcct gctgaagatc attggatttt ccacatcagt 240
 aactgcctg gggtttctgc tgtacaaata caagctcctg ccacggctct gaagtctgt 300
 tcttatgctc tctgctcact gggtttcaat accaccaaga ggaaaatatt gacaagtta 360
 aaggctgtgt cattgggcca tgtttaagtg tactggattt aactacctt g 411

<210> 579

<211> 201

<212> DNA

<213> Homo sapiens

<400> 579

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 aaaggatgcc tttagggttt gggggagatt ttactcctt ctcaacaac tattcactgg 120
 acaagttctc tgctcccatg acgcgccagg cacagttctg caagtatatt gtgaatgtat 180
 tgttctagtg ggatacaca a 201

<210> 580

<211> 336

<212> DNA

<213> Homo sapiens

<400> 580

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 tgctgtttct atgtctgga agcaccggat gggggtagt agcaaactc cctgctcag 120
 cagtcacat agcagctgac tgaaaatcag cactgcctga gtagtttga tcagttaac 180
 ttgaatcact aactgactga aaattgaatg ggcaataaag tgctttgtc tccagagtat 240

gcgggagacc cttccacctc aagatggata ttcttcccc aaggatttca agatgaattg 300
 aaatttttaa tcaagatagt gtgctttatt ctgttg 336

<210> 581

<211> 521

<212> DNA

<213> Homo sapiens

<400> 581

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 ataaagtcag aaaataaagt taacataact tcactaaca cacacatatg tagatttcac 120
 aaaatccacc tataattggt caaagtgggt gagaatata ttttagtaa ttgcatgcaa 180
 aatttttcta gcttccatcc ttctcctc gtttctctt ttttggggg agctggtaac 240
 tgatgaaac ttctccacc ttctcttc aggaaata agtggtttg ttggttaac 300
 gtgatacatt ctgtatgaat gaaacattgg agggaaacat ctactgaatt tctgtaatt 360
 aaaatatttt gctgctagt aactatgaac agatagaaga atcttacaga tgctgtata 420
 aataagtaga aaatataat tcatcacta aaatagcta tttaaaac tatttctat 480
 attgtatttc taatcagatg tattactctt attatttcta t 521

<210> 582

<211> 484

<212> DNA

<213> Homo sapiens

<400> 582

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 ttacataata tgctgagaat tatttctat gcttttact acaacaaaa ttactcacct 120
 ggattaaaga ttaaggcctt aatctgttta gattatctt aatctcatg aaatcgtgaa 180
 ataagacaag aatagtgtt cagctgtagg ccattttaca gctaattgcc cataaattgt 240
 agcatttatt gacctgaagt actaagctaa ttgtcttgac tactcaaagc cctgaattg 300
 ttgcaactt tcccccttgt gttgtgtagc ctaacgtca ttagcttgt tctctgatgc 360
 ctccagtagg acacctccga tggagctttg atttctgagc agcgaaagct ccttctctaa 420
 gatgcatctc gcataggctg cctatgatga aggaccgtgc acctccactc caacagagt 480
 ctga 484

<210> 583

<211> 503

<212> DNA

<213> Homo sapiens

<400> 583

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 ctcaaatgg ttcathtag ccttgagaat ggtttttga aactggcca cactaaatg 180
 tttttttt ttacgtaga atgtgggata aactgatga actccaagt cacagtgtca 240
 ttcttcaga actcccctt attgaatagt gatcattat taaatgataa attgcactcg 300
 ctgaaagagc acgtcatgaa gcaccatgga atcaaagaga aagatataaa ttcgtccca 360
 cagccttcaa gctgcagtg tttagattgc ttcaaaaaat gaaaaagtt tgctttttc 420
 gatatagtga ctttcttgc atattaaaat gtttaccaca atgtccatt tctagttaag 480
 tcttcgact tgaagctaa cat 503

<210> 584

<211> 465

<212> DNA

<213> Homo sapiens

<400> 584

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cagaagggct ggatgccccg ggagagcgtg ctccacacc tgcaggtgca gcacctgacc 60
gggggggtca tgcacccaa gaggacaggc cgcacccca tccagcaggc cctcctctcc 120
gggatgatca gtgaagagct ggcccagctc ctgcaggacg agtccagcta cgagaaggat 180
ttgacagacc ccctctccaa ggaacggctg agctacaagg aggccatggg ccgctgccgc 240
aaagaccccc tgagcggcct gctgtcctg ccagcggcac tggaggggta ccgctgtctac 300
cgtcccgct cccccaccgt cccgcgctcc ctctcgtgac acgggccaag gagccagtgg 360
ggaagtgcgt gtgttgggcc aggtaggata cgtacacctc ttgcctcaga gcagcctcat 420
cccaggcagt ggtcttccc tctgtccaac cactgtttta ttatt 465
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<210> 585

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (271)..(271)

<223> n is a, c, g, or t

<400> 585

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tgcttgaact ttagttaacc acctgcttag ggactttgaa cttaaatata tccccttct 120
caagtgtgc tatttataaa ctataaaaaa cttgaattg gctattttt taatgaata 180
ttttttct gaattcatta tgatcccat attgggtaat gctgaacatt tatctgaac 240
agatgaggat attattattt tttatccaaa nagaaattca gataaaggga aatttgacta 300
gtgtaatctg agatatgtca tagggatttc ttctgacaa aagggtgctt tgctgttctt 360
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<210> 586

<211> 520

<212> DNA

<213> Homo sapiens

<400> 586

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gatgacgggg gatctgagge tgtgtctctg ccttgtcttt agaggacttc agcgtccaag 60
actggggccc acccttctca ccagcactaa atgcactaac aaggactcca gacctgcagc 120
cccagaccg ccgtagtata agcctaaca gcaacacgta gcacctagt ctttgtcca 180
ggagagctga gcaagctggt gaaaccactc tcttctctt aaacaccgtt tcaaccaacc 240
tctccctgga gccaacctgt aaaaagtggg ttgattgctg acagcatggt ctccctccc 300
tgcatttcag acataccagt tactgaaagc aaatcagttt taagtattt ctactgctg 360
aaaagcctgt ccaggtttcc tccctttcc caagcctctc tctgtaatac tcccttggg 420
cgaagctaac atcgggtgcct ccccgacctt gctgactagg cacatgggac gcaaaggagg 480
gagggaagca aggccttccc tggcgagttg tcatgtggtt 520
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<210> 587

<211> 468

<212> DNA

<213> Homo sapiens

<400> 587

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ttaaccagtc cactgttata cccggggcac tctaaccatc acaatcaatc aatcaaattc 60
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ccttaaattt gtatggcact ggaactttgg caaagcactt ttgacaagtt gtgtctgatt 120
 ggagcttcat gatagccttg tgacatcttt agggcaggat tcttatcccc atttgcaga 180
 tgaaaaccct gagtcacaga ttctgtggg actgtggatc tcttggaag ctatccaaga 240
 gcccactgtc accttctaga ccacatgata gggctagaca gctcagttca ccatgattct 300
 ctctgtcac ctctgctggc acaccagtgg caaggccag aatggcgacc tctctttagc 360
 tcaattctg ggcctgaggt gctcagactg cccccaagat caaatctctc ctggtgtag 420
 taaccagtg gaatgaattt ggacatgccc caatgcttct atatgcta 468

<210> 588

<211> 523

<212> DNA

<213> Homo sapiens

<400> 588

ttgtgtggtt ttattctatc ggtataaagg catcgatatt ttagatgcac ccgtgtttgt 60
 aaaaatgtag agcacaatgg aattatgctg gaagtctcaa ataataattt ttctattt 120
 tatactcatg gaagagataa gctaaagagg ggacaataat gagaaatgtt ggtgtgcttt 180
 tctaagcatt taaaacataa ttgccaattg aaaccctaaa tatgtttaca taccattaag 240
 atatgattca tgtaacaatg ttaaattaat tataatggga ttgggtttgt tatctgtggt 300
 agtatatac ctagtgttcc tatagtgaag taagtagggt tcagccaaag ctttctttgt 360
 ttgtacatt aaattgttcg attacgtcat caaaagagat gaaaggtag tagaacaggt 420
 tcacgtgatt accttttct ttggcttggg attaatattc atagtagaac ttataaaac 480
 gtgtttgtat tgtaggtggt gttgtatta tgcttatgac tat 523

<210> 589

<211> 465

<212> DNA

<213> Homo sapiens

<400> 589

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 gggttccaca gggcccagcc ctggcagggg tctggcccc caggtaggcg gagagcagtc 120
 cctccctcag gaactggagg aggggactcc aggaatgggg aaatgtgaca ccaccatcct 180
 gaagccagct tgcacctcca gtttcacag ggattgttcc tgggggctga gggccctgtc 240
 cccacccccg ccttgggtgc tgtcataaaa gggcaggcag gggcaggctg aggagttgcc 300
 cgttgcccc cagagactga ctctcagagc cagagatggg atgtgtgagt gtgtgtgtgt 360
 gtgtgtgcgc gcgcgcgcgc gtgtgtgtgt gcacgcactg gcctgcacag agagcatggg 420
 tgagcgtgta aaagcttggc cctgtgccct acagtgggga cagct 465

<210> 590

<211> 532

<212> DNA

<213> Homo sapiens

<400> 590

gaggaacttg ccaaactaag gactagggtg cagaaggaaa attagcacca ataaagagga 60
 aatatgaaag gattctttaa gatttccagt ttgcaactg cataatagct atgccaag 120
 agtcaactat tgtatatatt gcagatttgc ctttttaaaa aaactactaa ttctacaatg 180
 tgccagatac atgtttccta tgcccaggaa gttatgaaga cttaacaat taaactgaaa 240
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 atctgaagt tgaaagctca gattaagcaa gccatgcaa gaaactggac gatgtgtaag 360
 cctagactct aaaattcaag atgtgtgaaa taatataagt caaaagcaag aaaaacgtaa 420
 tccgtctga actcaagtag tcattcatat aaatttgaac acacctgctg tgcctagaca 480

agtgcttttc tgtaagagct gtaactctga gatgtgctaa ataaaccctc tt 532

<210> 591

<211> 129

<212> DNA

<213> Homo sapiens

<400> 591

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ttaaagcc 129

<210> 592

<211> 476

<212> DNA

<213> Homo sapiens

<400> 592

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ccaggccctt ctgaccctg tgcccttga ctttcttgt ctggactcac cccaggcctg 180
gctttcagcc attggactgg agtgctacca ggacaacttc tccaagtttgc cctctgtac 240
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tgccaccag aagaagctgc tgcaccacat ccagctcctt cagcaacacc tgaggcagca 360
gggctcagt gaggtctgag aatgacgata cccgtgactc agccctggac actggtccga 420
gaaggacat gtgggacgtg agccgggctc caacagcctc tgtgagagat gcccc 476

<210> 593

<211> 537

<212> DNA

<213> Homo sapiens

<400> 593

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ttaaagacct ttttttctaa cctagactga gaaattcatg tttacttttc taggtgtatg 180
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cactggactt ttaaacttag acttttagtga tgtctacatt gtaaagatc ttttgggat 480
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<210> 594

<211> 543

<212> DNA

<213> Homo sapiens

<400> 594

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 aca 543

<210> 595
 <211> 568
 <212> DNA
 <213> Homo sapiens
 <400> 595

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 aaaagttcat gaagtaccaa tgcaagtgtt ttatTTTTT tctttttcc agcccataag 180
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 agtatttttg aaaaagtgtc ttcactttat attgtgtaat tgtaactaa agataccgtg 480
 tttctttgt attgtgttct acctccctt tcaactgaaa tgatcacttc atttgatact 540
 gttttcatg ttctgtatt gcaaccta 568

<210> 596
 <211> 360
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (250)..(250)
 <223> n is a, c, g, or t
 <400> 596

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 cagtatcgag gcttgtgatg acgaatcctg ctctaaaata cacaaggagc tttctgttt 120
 cttattagc ctcagaaaga agtcagttta cgtcacccaa aagcacaaaa tggattttag 180
 tcaaatttt attggatgat acagtgttt ttaggaaaag catctgccac aaaaatgttc 240
 acttcgaaan tctgagtcc tggaatggca cgttgctgcc agtgccccag acagttcttt 300
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<210> 597
 <211> 538
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (314)..(319)
 <223> n is a, c, g, or t
 <400> 597

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 ctctccacg tttttctgc aattaataat gtcattaaa aaatgagcaa agccttatcc 240
 gaatcgata tagcaactaa agtcaataca ttttcagga ggctaagtgt aagagtgtgt 300
 gtgtgtgtgt gtgnnnnnnc gtgcatgtgt gtgtgtgtgt atgtgtgtga ataagtcgac 360
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 aacaccacaa agatcgcac tgtaaacag gtacaagtgt acatgaggtt agttaaattg 480
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<210> 598

<211> 521

<212> DNA

<213> Homo sapiens

<400> 598

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 taggatattt ctacaaggtg ttcattttgt cacaagctgt agataacagc aagagatggg 180
 ggtgtattgg aattgcaata cattgttcag gtgaataata aatcaaaaa cttttgcaat 240
 cttaagcaga gataataaaa agatagcaat atgagacaca ggtggacgta gagttggcct 300
 tttacaggc aaagaggcga attgtagaat tgtagatgg caatagtcac taaaacata 360
 gaaaaatgat gtctttaagt ggagaattgt ggaaggattg taacatggac catccaaatt 420
 tatggccgta tcaaatggta gctgaaaaaa ctatatttga gcactggtct ctcttggaa 480
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<210> 599

<211> 532

<212> DNA

<213> Homo sapiens

<400> 599

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 tctcaaagct aaggacaaaa tccagctaac ccagtccttc ggcccaggcc tctttctgtg 180
 ctttgtctt ggtggggggg atttcgaggg actttgcaat ggactctggg aacctttcat 240
 cattaaaaaa aggggggacca ttggggcctg agccaaggaa ctttccttct actgccttat 300
 agtgcttaaa cattctccgc ctccagggtg cagattcaga gctggccaga gtttcagtga 360
 tagccgatg ttaacagaa tctcacctca gtctctgga gggagatgtt taagaggggt 420
 taacacatca gatgggaggg tcagcccgtg gacctctaag gtatcttcta acctagaaac 480
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<210> 600

<211> 447

<212> DNA

<213> Homo sapiens

<400> 600

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 cccatttctg tgagaccctg tatttcaaat ttgcagctga aaggtgcttc tacctctgat 360

ttcacccag agttggagtt ctgctcaagg aacgtgtgta atgtgtacat ctgtgtccat 420
gtgtgacct gtgtctgtga ggcaggg 447

<210> 601

<211> 447

<212> DNA

<213> Homo sapiens

<400> 601

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agcctgggtt cttggcctca gtgattccag tggacaggcg tccaggagct ccaaacctgt 180
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gaaaccaggc aggacagtag atccctatgg ttggatctca gctggaagtt ctgtttggag 300
cccattctg tgagaccctg tatttcaaat ttgcagctga aagtgcttc tacctctgat 360
ttcacccag agttggagtt ctgctcaagg aacgtgtgta atgtgtacat ctgtgtccat 420
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<210> 602

<211> 547

<212> DNA

<213> Homo sapiens

<400> 602

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tgatagctgt cccatctggt catgtggttg gactagact ggtggcaggg gcttctagct 180
gactgcaca gggattctca caatagccga taccagaatt tgtgtgaag gaactgtct 240
cttcctctaa tatgatagcg ggaaaaggag aggaactac tgcctttaga aaatataagt 300
aaagtgatta aagtgtcac gttacctga cacatagttt ttcagtctat gggtttagtt 360
acttttagtg gcaagcatgt aacttatatt aatagtaatt tgtaaagttg ggtggataag 420
ctatccctgt tgccggttca tggattactt ctctataaaa aatatatatt taccaaaaaa 480
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<210> 603

<211> 543

<212> DNA

<213> Homo sapiens

<400> 603

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tgcattgtgc cagaaacatt gtgttatctt ttatgttgtt gttgttgctg ttaactata 180
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atg 543

<210> 604

<211> 473
 <212> DNA
 <213> Homo sapiens
 <400> 604

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 gggcaccaga gaaccacaaa taggacaaaag cgaaagaaga aacagcctac ctcatactc 120
 tcaagccagt tgaagaaacc ttgcctttc agcttgacct tgcaatataa catgcacagg 180
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 ccaaaggaca actgaggaga ctgccagca cataatgaat aaataagaaa atgagtgagg 300
 agttattaac atcatttga aaaaagattt cccattcact tgatattgtt tgttcactca 360
 ttagtcatt aaaagtgaga ttaataaaat ctgaaaatgt tatataataa ctttaaaaag 420
 ccaggttaatt aataatctgc actgatatta catccacagt accacagtat tta 473

<210> 605
 <211> 465
 <212> DNA
 <213> Homo sapiens
 <400> 605

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 ctctgtgtat gcctgggatc ctccaagca ctcataagccc agata 465

<210> 606
 <211> 373
 <212> DNA
 <213> Homo sapiens
 <400> 606

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 gtgatgttag gacagagtga gagaagtgc ctgtcacggg gaaggtgaga gagaggatgc 180
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 ccccatatgt cttccttact agactgtgag ctctcgagg gcagggaccg tgccttatgt 360
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<210> 607
 <211> 364
 <212> DNA
 <213> Homo sapiens
 <400> 607

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 gaagctgtgc agtataaac tcaagtgtt gctggaacaa attactacat taaggtacga 180
 gcaggtgata ataatatat gcacttgaaa gtattcaaaa gtctcccg acaaaatgag 240
 gacttggtac ttactggata ccaggttgac aaaaacaagg atgacgagct gacgggcttt 300

tagcagcatg tacccaaagt gttctgattc ctcaactgg ctactgagtc atgaccttg 360
ctga 364

<210> 608

<211> 477

<212> DNA

<213> Homo sapiens

<400> 608

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agagaaggca gctacggcta ctctacatc ctggcgtggg tggccttcgc ctgcaccttc 420
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<210> 609

<211> 480

<212> DNA

<213> Homo sapiens

<400> 609

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actccatct tgcaccctg gggggcccagc ccaccgcat gcacagagca ggggctagg 420
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<210> 610

<211> 523

<212> DNA

<213> Homo sapiens

<400> 610

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ccagaggaag actgccctgg agttctgtgg agagacttg agctctctc gcacattctt 180
cctcagcata gtgcaggaca cgtcatgcta atgaggtaaa aagagaacgg gttcctttaa 240
gagatgtcat gtgtaagtc cctctgtata ctttaaagct ctctacagtc ccccaaaaat 300
atgaactttt gtgcttagtg agtgcaacga aatatttaa caagtttgt atttttgct 360
tttgtttt ggaattggc ttattttt tggatgcgat gttcagaggc tgttcctgc 420
agcatgtatt tccatggccc acacagctat gtgttgagc agcgaagagt ctttgagctg 480
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<210> 611

<211> 556

<212> DNA

<213> Homo sapiens

<400> 611

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 gcaacaggaa tcaagagact gccctccttg tccaccacc tatgtgcaa ctgttgaac 180
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 cttcacccc agtggccact cagcttcta cccacacctc tgccagaaga tcccctcagg 540
 actgcaacag gcttgt 556

<210> 612

<211> 193

<212> DNA

<213> Homo sapiens

<400> 612

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 ggcatcggcc ctgcctgaag tgcgagaaat gtgggaagac gctgacctct gggggccacg 120
 ctgagcacga aggcaaacc tactgcaacc acccctgcta cgcagccatg ttggggccta 180
 aaggcttgg gcg 193

<210> 613

<211> 402

<212> DNA

<213> Homo sapiens

<400> 613

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 acccacagcc caggcagcgg gtgtgtggag atggcgccct gtctgcca ggggcgccag 300
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<210> 614

<211> 536

<212> DNA

<213> Homo sapiens

<400> 614

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 aatgcattcc ctgaatctgt gcctgactg agagggcaag gaagtgggt gttctcttg 420
 ggacccccac taagacctg gtctgaggat gtagagagaa caggtgggt gtattcacgc 480
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<210> 615
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 <213> Homo sapiens
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tgggaatgga atcactgatt ttcagctttt tccatttctt tctctctaga atctgtgac   480
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gtctgtcc                                     548
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<210> 616
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 <212> DNA
 <213> Homo sapiens
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cgccagagcg tgggcaacga ggccgagatc tggtggggcc tcaacgacat ggcgggccgag   180
ggcacctggg tggacatgac cggcgccccg atgccttaca agaactggga gactgagatc   240
accgcgcaac ccgatggcgg caagaccgag aactgcgcgg tctgtcagg cgcggccaac   300
ggcaagtggg tcacaagcg ctgccgcgat cagctgccct acatctgcca gttcgggatc   360
gtgtagccgg c                                     371
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<210> 617
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gtttattata aaatataaac agatatataa agatgttgac tcttacctgt gattttgcat   180
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cccttactt aattatattg tagtgtgcag ataacaaaac tgctaccttc tcatccaagt   360
ggtctgtaga attcatgtcc cttacagtgg tcatttaaag tcaatattta ttatgtatg   420
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gtaaaaatgt ttgtaaaaa acaaaaaagt attgtaaata gtcttgatat tctgtgactc   540
attat                                     545
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<210> 618
 <211> 423
 <212> DNA
 <213> Homo sapiens
 <400> 618

agaggctctcc ctataccgag acccaccatc ctccatcct gaggaccgcc ccaaccctcg 60
 gagcccccca ctacgtaggt ctgaaggcct ccatttgtac cgaacacccc cgctcacgct 120
 gacagcctcc taggctccct gaggtacctt tccaccaga cctccttcc ccacccata 180
 agccctgaga ctcccgctt tgacctgacg atcttcccc tcccgcctt caggttcctc 240
 ctaggcgctc agaggccgct ctgggggggtt gcctcgagtc cccccacccc tccccacca 300
 ccaccgctcc cggggcaagc cagcccgctc aacggaagcc aggccaaactg ccccgctct 360
 tcagctgttt cgcattccacc gccacccac tgagagctgc tctttgggg gaattgttg 420
 caa 423

<210> 619
 <211> 543
 <212> DNA
 <213> Homo sapiens
 <400> 619

taacatcagc tgcctatgcc tatgataagg tagcagictg cattcttatg gccattagat 60
 gttacaaact cttgcctct aaagtcagat catgaaggga taggtgttca tctaaggta 120
 cagttatgtt accgaaacac aaaactgcc aatcttact ctgctgttat gaattgttac 180
 catcagcatt atttatcat ttaatatgtg ctactgatt gttactgta gcttcagcgc 240
 gtgccaagca gtgacttaa taggatcatc ttgtgaattt gttacgtga tgccaagcat 300
 caagtcatgt tttcttagt gtgtgtgctt acacaggtgt taaacagttt ttcttattt 360
 taaactgagc cttctttta atatattccc gaagagatat gtaataagc tctcagagtt 420
 tctgtgatga ttgttgagc ctgctggac aagtgggtt tttgtgtgca aaccaaactt 480
 tctttacca gtgcaataga ttgtttgac tgcttgtgc ttttatgac ctgtttgcct 540
 ttt 543

<210> 620
 <211> 406
 <212> DNA
 <213> Homo sapiens
 <400> 620

gcagactggg agttgctagc aaacaaatgg ctacttaca aaagcagctt ttagttcaga 60
 cttagtttt ataaaatgag aattctgact tacttaacca ggttgggat ggagatggc 120
 tgcacagct tttgtatta acaaagtac tggctctttg tgtgtctcca ggtaactttg 180
 cttgataaaa cagcaaagcc atattctaaa ttcactgttg aatgcctgic ccagtccaaa 240
 ttgtctgtct gctcttatt ttgtaccata ttgctctaa aatcttggg ttggtacagt 300
 tcataattca ccaaaaagt catataattt aaagaaacac taaattagt taaatgaag 360
 caatttatat ctttatgcaa aaacatatgt ctgtcttgc aaagga 406

<210> 621
 <211> 530
 <212> DNA
 <213> Homo sapiens
 <400> 621

gactctttga aatgacatgt tcccttaagg tactgaagct ttatttgcatt atttattca 60
 gatgtttcga gtaaacttga aaaggtagg cacgaagcaa tttgtgctg cttgtcacc 120
 ccaagtcctc gtggaggttc tgattttaa gaaacagtgc gttgagtga cagattttat 180
 ttatgcgtaa tttaatggg tctgtaata ctggtgcact tctacgact ttttgagac 240
 atgggatcca attttaatat taactttta ttgtgatggg gtaactata acacatcata 300
 aggttttatt catatatata cagggtatta agaattaaga ggatgctggg ctctgtctt 360
 ggcttgaag attctattta attgaaactc tctgttcaga aagcaataac tttgtctgt 420

tcctgttggg ctgaacccta aggtgagtgt gcagtacagt gtgtgtgggt gaaatggaga 480
 ttggaattg aactctctgc ctgtaaatgt tccccaaata attgttgtgt 530

<210> 622

<211> 434

<212> DNA

<213> Homo sapiens

<400> 622

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 ggggtgggtgg gcatctctca ggagcccat ctccgggctg gtcacctctt gggcaggggt 120
 ctgggacctt ctgtgggtga cgcacacctt gggatggggc tagtagagcc ttcaggcgcc 180
 ttcgggcgtg gactctggcg cactctagt gacaggagaa ggaacgcctt ccaggaacct 240
 gtggactagg ggtgcaggga cttccctttg caaggggtaa cagaccgtg gaaaacactg 300
 tcactttcag agctcgggtg ctacacgcgt gtcctgcccc ggtttgcgga cgagagaaat 360
 cgcggccac aagcatcccc catcccttgc aggctggggg ctgggcatgc tgcattctaa 420
 cctttgtat ttat 434

<210> 623

<211> 417

<212> DNA

<213> Homo sapiens

<400> 623

ggagtttgtt gacctcatga acagcaaaga atccaagttt acctcaaga tgaatccagg 60
 tgatgtgatt acttttgata actggcgctt acttcatggc cgacgtagct atgaagcagg 120
 aactgagata tcccgccatc tagaaggagc ttatgtgae tgggatgtgg tcatgtcaag 180
 gttcgtatc ttaaggcaga ggggtggagaa tggaaactga agtcacctgt agataatttt 240
 aataagattc caatgacctt atttgtgag atatggcaca ttattcacag accatgatct 300
 ttgtgattta catataattt ccttaacaat gaacatgtaa cttctctcac aagagtactc 360
 ttactttgt aatcatatac aatgtcaact ttttagatgt ttaccactc ttttgca 417

<210> 624

<211> 317

<212> DNA

<213> Homo sapiens

<400> 624

cgccatcacc gagcgcttga tgtgcgcgga gagcaatcgc cgggacagct gcaagggtga 60
 ctccgggggc ccgtgtgtgt gcgggggcgt gtcgagggc gtggtcacct cgggctcgcg 120
 cgtttgcggc aaccgcaaga agcccgggat ctacaccgc gtggcgagct atgcggcctg 180
 gatcgacagc gtctggcctt aggggtgccg ggccctgaagg tcagggtcac ccaagcaaca 240
 aagtcccgag caatgaagtc atccactcct gcatctggtt ggtctttatt gagcacctac 300
 tatatgcaga aggggag 317

<210> 625

<211> 383

<212> DNA

<213> Homo sapiens

<400> 625

ttttcgtga cccctgagt ggggaaaggc aggctgttgc atggtggcct gagcgagcag 60
 aattcctcca gggacaatgg cgtctcttgg ccacatcttg gttttcttg tgggtctcct 120
 caccatggcc aaggcagaaa gtccaaagga acacgaccgg ttactttacg actaccagtc 180

cctgcagatc ggaggcctcg tcacgccgg gatcctcttc atcctgggca tcctcatcgt 240
 gctgagcaga agatgccggg gcaagttcaa ccagcagcag aggactgggg aacccgatga 300
 agaggaggga actttccgca gctccatccg ccgtctgtcc acccgcaggc ggtagaaaca 360
 cctggagcga tggatccgg cca 383

<210> 626
 <211> 317
 <212> DNA
 <213> Homo sapiens
 <400> 626

gggccacgcc aggaatattc agaaaataat gagaactaca ttgaagtgcc attgattttt 60
 gacctgtca caagagagga ttgacatg gattttaaat gtgtgtcca taataccctg 120
 agttttcaga cactacgcac cacagtcaag gaagcctcct ccacgttctc ctggggcatt 180
 gtgtggccc cactttact ggccttctg gttttggggg gaatatggat gcacagacgg 240
 tgcaaacaca gaactggaaa agcagatggg ctgactgtgc tatggcctca tcatcaagac 300
 ttcaatcct atcccaa 317

<210> 627
 <211> 397
 <212> DNA
 <213> Homo sapiens
 <400> 627

gggatagtc atatgaagc agctccaaag gaggaatgtg ccctggagat catcaaagg 60
 ggagctctgc gccagaaga agtgattat gacagctcac tctggaccac tcttctgac 120
 agaatccat gcaggaagat cctggaattt ctctactcaa cgagctataa tatggacaga 180
 ttcataaaca agtaggaact ccctgagggc tgggcatgct gagggatttt gggactgtc 240
 tgtctcatgt ttatctgac tcttatctat gaagacatct tcccagagt tccccagaga 300
 catgcaagtc atgggtcaca cctgacaaat ggaaggagtt ccttaacat ttgcaaatg 360
 gaaatgtaat aataatgaat gtcatgcacc gctgcag 397

<210> 628
 <211> 561
 <212> DNA
 <213> Homo sapiens
 <400> 628

attgtgcta cttatataat tgccaaaaag tgaaataatg tgtagttcat gtaaataata 60
 cattatattt ctattttatt atgaagaagg tgaatagcca tatttgtaa atgacaatca 120
 tgtgtgttaa cccagtgtt tccattcgtg aaaacacatt tgcttttgt gatatgcaca 180
 atgtagataa gtgttctgac tgactttctt tttgatata gaagtataaa gaattgtggt 240
 ttatatattt aaaagtgtca agctgagtat taaaatgtat gcatgttgc taagaaattg 300
 aatacttgaa tgtgtctcac agttgaaat aagctatttg atgtaatact tcttgttgt 360
 atgcacatga aacttagatt ttacatgaag tatttttca gtattatatg taccctctga 420
 aatacatagg gatatgcgta ttataccaaa atgtgtctga aaaatgggca cttaaagctt 480
 tcagaatatg tcagtgtga ttagcatgc ttgttgaat tgccttttt ctgtataaat 540
 gtccttaatg caataactg g 561

<210> 629
 <211> 514
 <212> DNA
 <213> Homo sapiens

<400> 629

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cagactgttc agtgtttgtc aagcttctgg tctaataatgt actcgaaaga ctttccgctt   60
acaatttga gaaacacaaa tatcgttttc catacagcag tgcctatata gtgactgatt   120
ttaactttca atgtccatct ttcaaaggaa gtaacaccaa ggtacaatgt taaaggaata   180
ttcactttac ctgacaggga aaaatacaca aaaactgcag atacttcata tagcccatTT   240
taacttgat aaactgtgtg acttggtggc tcttataaat aatgcactgt aaagattact   300
gaatagtgtg gtcattgtaa tgtgcctaat ttcattgtatc ttgtaatcat gattgagcct   360
cagaatcatt tggagaaact atattttaa gaacaagaca tacttcaatg tattatacag   420
ataaagtatt acatgtgttt gattttaa gggcggacat ttattaaaa tcaatattgt   480
tttgccttt tctgaggagt ctctttcagt ttca                               514

```

<210> 630

<211> 527

<212> DNA

<213> Homo sapiens

<400> 630

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gattctctgt accaagtgt gcaagcatgc tgggaggcag acccagcagt gcgaccacc   60
ttcagagtac tagtggggga ggtggagcag atagtgtctg cactgcttgg ggaccattat   120
gtgcagctgc cagcaacctg catgaacttg ggccccagca cctcgcatga gatgaatgtg   180
cgtccagaac agcccgagtt ctacccatg ccagggaatg tacgccggcc ccggccactc   240
tcagagcctc ctgccccac ttgacttagt tcttgggctg gacctgctta gctgccttga   300
gtaacccca aggctgcctc tgggcatgc caggccagag cagtggcctt ccacctgtt   360
cctgcccttt aacttcaga ggcaatagg aaatgggccc attaggtccc tactccaca   420
gagttagcca gtgaggcag tcttgaaca tgtatttatg gactgcctgc tgtggaccct   480
gtcttctggg cacagtggac tcagcagtga ccaccaaac actgacc                               527

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<210> 631

<211> 489

<212> DNA

<213> Homo sapiens

<400> 631

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gagggtgatg ccatctaacc ctgccctgt ccaccccggt tgggtgaaac tcaatgagca   60
gccaagactg ttgcccgagg actcactgta tgggtccctc tccaaagggt cgggagggtg   120
gtctccagg ccagagcttg tctcctcaa cagagaggcc agcggcaact ggtccgttac   180
tggccaagggt ctctgaagaa tcaacggtgc tggtagcaga tacaggaata aattgtatct   240
tcacctggtt cctacccctg tcctacctg tctgtatct ggtcctgaag acccctcgga   300
acacctctc ctggtggcag gccactccc tccagtgcc agtctccatc caccacagag   360
aggaacaggc ggggtgggcca tgtggtttt tcttctctgg ccttggtgg cctctggggc   420
aggggtggtg gagagatgga agggcatcag gtgtagggac cctgccaagt ggcacctgat   480
ttactctag                               489

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<210> 632

<211> 546

<212> DNA

<213> Homo sapiens

<400> 632

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gccaacatca ccatcattga gcaccagaag tgtgagaacg cctaccccggt caacatcaca   60
gacaccatgg tgtgtgccag cgtgcaggaa gggggcaagg actcctgcca ggtgactcc   120
ggggggcctc tggctgttaa ccagtctct caaggcatta tctctgggg ccaggatccg   180
tgtgcgatca cccgaaagcc tgggtgtctac acgaaagtct gcaaatatgt ggactggatc   240

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caggagacga tgaagaacaa ttagactgga cccacccacc acagcccatc accctccatt 300
 tccacttggt gtttgggtcc tgttactct gttaataaga aaccctaagc caagaccctc 360
 tacgaacatt ctttgggect cctggactac aggagatgct gtcacttaat aatcaacctg 420
 ggggtcgaaa tcagtggagac ctggattcaa attctgcctt gaaatattgt gactctggga 480
 atgacaacac ctggtttgtt ctctgttga tccccagccc caaagacagc tcctggccat 540
 atatca 546

<210> 633
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n is a, c, g, or t
 <400> 633
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 ctcccttag gacataatgt gtaaganagg tgagaagtgc tccaagcag acacaacagc 120
 agcagagagg tctggaggcc acacaaaaag tgatgctgc cctgggctag cctcagcaga 180
 cctaaggcat ctctactccc tccagaggag cgcgccagat tcctgcagtg gagaggaggt 240
 ctccagcag cagcaggtct ggagggtga gaatgaacct gactagaggt tctggagata 300
 ccagaggtc cccaggtca tcacttggt cagtgaagc cctcttccc caaatcctac 360
 tccctagcc tcaggcagtg gtgtcccat ctctctccc acaactgtgc tcaggctggt 420
 gccagcctt cagaccctgc tccagggac ttgggtggat gcgtgatag aacatcctca 480
 agacagtttc ctt 493

<210> 634
 <211> 489
 <212> DNA
 <213> Homo sapiens
 <400> 634
 agtatttccc atttatcgca gaccttttt aggaagcaag cttaatggt gataatttta 60
 aattctctct ctgcaggaa ggactatgaa aagctagaat tgagtgtta aagttaaca 120
 tgttattgt aatagatgtt tgatagatt tctgctact tgctgctatg gttttcca 180
 agagctacat aatttagtt catataaagt atcatcagt tagaacctaa ttcaattcaa 240
 agctgtgtgt ttggaagact atctactat tcacaacag cctgacaaca ttctatagc 300
 caaaaatagc taaatacctc aatcagtc agaatgtcat ttgggtactt tgggtggcac 360
 ataagccatt attcactagt atgactagt gtgtctggca gtttatatt aactcttt 420
 atgtctgtgg atttttct tcaaagtta ataaattat ttcttggat tcctgataat 480
 gtgcttctg 489

<210> 635
 <211> 155
 <212> DNA
 <213> Homo sapiens
 <400> 635
 gcaacggaag agtctgggc ggaaggagc ttctgtatgc ttgtgaaaa gaacaatctg 60
 tgccaacgga aggttttca acaacttgc tgcaaacat gtacattca aggtgagca 120
 gccatcttag atttttgt tctgtagac ttata 155

<210> 636
 <211> 355
 <212> DNA
 <213> Homo sapiens
 <400> 636

tgggttaagc ctgcagggat cccgggtgctc tgtctcctgt gaagatggac ggtatttcaa 60
 cggccaggac tgccagccct gccaccgctt ctgcgccact tgtgctgggg caggagctga 120
 tgggtgcatt aactgcacag agggctactt catggaggat gggagatgcg tgcagagctg 180
 tagtatcagc tattactttg accactcttc agagaatgga tacaatcct gcaaaaaatg 240
 tgatatcagt tgtttgacgt gcaatggccc aggattcaag aactgtacaa gctgcctag 300
 tgggtatctc ttagacttag gaatgtgtca aatgggagcc atttgaagg atgca 355

<210> 637
 <211> 469
 <212> DNA
 <213> Homo sapiens
 <400> 637

agcctatcct taataaatcc tccactctct ggaaggagac tgaggggctt tgtaaacat 60
 tagtcagttg ctcatTTTTA tgggattgct tagctgggct gtaaagatga aggcatacaa 120
 taaactcaaa gtatttttaa atTTTTtga taatagagaa acttcgctaa ccaactgttc 180
 tttcttgagt gtatagcccc atcttTgtgt aactgtctgc ttctgcactt catatccata 240
 tttctattg ttcactttat tctgtagagc agcctgccaa gaattttatt tctgtgttt 300
 tttttgctgc taaagaaagg aactaagta ggatgttaac agaaaagtcc acataaccct 360
 agaattctta gtcaaggaat aattcaagtc agcctagaga ccatgttgac tttctcatg 420
 tgtttcctta tgactcagta agttggcaag gtcctgactt tagtcttaa 469

<210> 638
 <211> 455
 <212> DNA
 <213> Homo sapiens
 <400> 638

gctttgtca ctgaattatc tcccaagtgc tggcagactg aatgttgatg tcattcgagc 60
 caagcaactt cttcagacag atgtgagcca aggttcagac cctttgtga aaatccagct 120
 ggtgcatgga ctcaaaactg tgaaaaccaa gaagacgtcc ttcttaaggg gcacaattga 180
 tctttctac aatgaatcct tcagcttcaa agttccccaa gaagaactgg aaaatgccag 240
 cctagtgttt acagttttcg gccacaacat gaagagcagc aatgacttca tcgggaggat 300
 cgtcattggc cagtactctt caggccctc tgagaccaac cactggaggc gcattgtcaa 360
 cacgcaccgc acagccgtgg agcagtgcca tagcctgagg tcccagctg agtgtgaccg 420
 cgtgtctcct gcctccctgg aggtgacctg agggc 455

<210> 639
 <211> 418
 <212> DNA
 <213> Homo sapiens
 <400> 639

ggaactctaa accittgtgat gactactaac aaatgtaaaa ttatgagtga ttaagaaaac 60
 attgctttgt gggtatcact ttaagttttg acacctagat tatagtctta gtaatagcat 120
 ccactggaaa aggtgaaaat gttttattca gcatttaact tacatttgta cttagagta 180
 tttttgata aaatccatag atttatTTta catttagagt atttacta tgataaagtt 240

gtaaataatt ttctaagaca gtttttatat agtctacagt tgcctgatt tcttattgaa 300
 ttgttagac tagttctctt gtcttgat ctgtgtacaa ttttagtcac taagactttc 360
 ctccaagaac taagccaact tgatgtgaaa agcacggctg tatataatgg tgatgtca 418

<210> 640

<211> 505

<212> DNA

<213> Homo sapiens

<400> 640

taagactgt actatgttg gccatgaact gacatatgaa aaaatgtgat ttttagttc 60
 agtgacctgt tttatagaat tttatattta aataaaggaa atttagattg gtcctttca 120
 aaattcaaaa aaaaaagcaa catcttcata gatgaatgaa acccttgat aagtaatact 180
 tcagtaataa ttatgtatgt tatggcttaa aagcaagttt cagtgaaggt cacctggcct 240
 ggttggtgc acaatgtcat gtctgtgatt gccttcttac aacagagatg ggagctgagt 300
 gctagatag gtgcagaagt ggtaggtcag ctacaaattt gaggacaaga taccaaggca 360
 aaccctagat tgggtagag ggaaaagggt tcaacaaagg ctgaactgga ttcttaacca 420
 agaaacaat aatagcaatg gtggtgcacc actgtacccc aggttctagt catgtgttt 480
 ttaggacgat ttctgtctcc acgat 505

<210> 641

<211> 533

<212> DNA

<213> Homo sapiens

<400> 641

atcctacaac ccacttgaa ggtataactg gatccagaga gggaaggact gacaagaagg 60
 aattattcag aaaaacactg acagatgttt tataaattgt acagaaaaat agttaaaaat 120
 gcaataggtt gaagttttcc agatatgttt ctctctgaaa ttactgtgaa tatttaacaa 180
 acacttact gatctatgtt atgaaataag tagcaaattg ccagcaaat gtctgtacc 240
 tttttaaag tgattttct gatgtgaact tcctccct tacttgctag gtttcaataa 300
 tttaaagag tcaaacta taaatgagta agtgacgat gtttaagat tgcacctggc 360
 agtgtgcct tttgcacaa atatttacct ggcatgtgc cttttgcaa caaatattta 420
 ctttgcaatt ggagctgctt ttaatttag caaatgttt tatgcaaggc acaataggaa 480
 gtcagttctc ctgacttcc tcctcatgta gtctggagta ctttctaaag ggc 533

<210> 642

<211> 493

<212> DNA

<213> Homo sapiens

<400> 642

ttgaacaaac cctcactgag cacctctgat gttgagcacc tgctgaatac tgagcactga 60
 atgggggagg gggaggggag cacgggggtga gtcaacctgg gactcggctc cagggatatg 120
 cctaccaata gcgggtatcg taaggcatgt acccaaacat aacggatgta aggcagaaag 180
 tgatcggaga aggaatgaga aagtgtgcgt gatgttaatg aaaagtcata tgcagctaga 240
 gcagaccag gaaagcttc tggaagagat tgcactgag gaaattcagg aaggatcttt 300
 gtagattggg gggagattct aaattgaagg ggtgataggg tgaggggcca gaggggaagtc 360
 tgctgtgttc tcatgtagga tgcagccct cctgcaact tctcttttg gccaatgtct 420
 ttctacttc ctgaccttt agaatcatcc ccagccagac gcaatcatgg aagttgcctt 480
 attgtcactg gtt 493

<210> 643

<211> 555
 <212> DNA
 <213> Homo sapiens
 <400> 643

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caccacctac ctatgatgcc gtggtacaga tggagtacct tgacatgggtg gtgaatgaaa   60
cactcagatt attccagatt gctattagac ttgagaggac ttgcaagaaa gatgttgaaa   120
tcaatgggggt attcattccc aaaggggtcaa tgggtgggtgat tccaacttat gctcttcacc   180
atgacccaaa gtactggaca gagcctgagg agttccgccc tgaaagggtc agtaagaaga   240
aggacagcat agatccttac atatacacac cctttggaac tggaccaga aactgcattg   300
gcatgagggt tgcctcatg aacatgaaac ttgctctaag cagagtcctt cagaacttct   360
ccttcaaacc ttgtaagaa acacagatcc ccttgaaatt agacacgcaa ggactcttc   420
aaccagaaaa acccattggt ctaaagggtg attcaagaga tggaacccta agtggagaat   480
gagtattctt aaggacttct actttggtct tcaagaaagc tgtgccccag aacaccagag   540
attcaactt agtca                                     555
```

<210> 644
 <211> 300
 <212> DNA
 <213> Homo sapiens
 <400> 644

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ttcttaggg ctttcttac agccttgaga agtagatagg catcagagta tggactata   60
ggaatcagaa aaattcaaaa caaatgtgga ttaagtgttt aggtctatg tggctcacgc   120
agccagaate ctaagtctg tgtgtttctg tgtctcaaga ctgggctcac attctggctt   180
tgtccataac aatgctctgg gatttcaggg agttccctca ttgtaaaat gaggggggtca   240
gagcaggtga tatcatgtt tcttccctt ctgatattgt tgtctgtggc atattctttg   300
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<210> 645
 <211> 551
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (114)..(114)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (119)..(120)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (127)..(127)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (129)..(129)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (149)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (152)..(152)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (167)..(168)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (243)..(243)

<223> n is a, c, g, or t

<400> 645

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ttcttacttc tacaggggta gagccttaaa aaagaacgtg ctacaaattg gtntcttnn 120
agggttneng gttctcctcg cccccaatnc cnatatactt tantgcnnntt ttatttttgc 180
ctttacggnc tctgtgtctt tctgcaagaa ggccctggcaa aggtatgcct gctgttggtc 240
ccntcgggat aagataaaat ataaataaaa ccttcagaac tgttttgag caaaagatag 300
cttgtacttg gggaaaaaaa ttctaagttc ttttatatga ctaatatct tggtagcaa 360
gactggaag aggtgttttt ttaaaatga cataccagaa caaagaacat acagctctct 420
gaacatttat ttttgaaca gaggtggttt ttatgtttgg acctggtaat acagatacaa 480
aaactttaat gaggtagcaa tgaatatca actgtttgac tgctaagtgt atctgtccat 540
attttagcaa g                                     551
```

<210> 646

<211> 468

<212> DNA

<213> Homo sapiens

<400> 646

```
tctgcagtga gtgaaccgc accctcccca gccacacggc tctcaaacgc cacctgcgt 60
cacatacagg cgaccacccc tacgagtgtg agttctgtgg cagctgcttc cgggatgaga 120
gcacactcaa gagccacaaa cgcattccaca cgggtgagaa accctacgag tgcaatggct 180
gtgacaagaa gttcagcctc aagcatcagc tggagacgca ctatagggtg cacacaggtg 240
agaagccctt tgagtgaag ctctgccacc agcgtcccg ggactactcg gccatgatca 300
agcacctgag aacgcacaac ggcgctcgc cctaccagtg caccatctgc acagagtact 360
gccccagcct ctctccatg cagaagcaca tgaagggccca caagcccag gagatcccgc 420
ccgactggag gatagagaag acgtacctct acctgtgcta tgtgtgaa 468
```

<210> 647

<211> 416

<212> DNA

<213> Homo sapiens

<400> 647

```
tcaagtctc tggggcagt tccagcgtga gggtgttc taccattat tccggagtaa 60
ccagataaag agatgccctc tgttcatta gctctagtc tccccagca tctaataaa 120
atatgcttgg caagaccgag gtcgattgt cccagccta cgggagaaa gagctatggt 180
tagttacact agctcactct attccccag ctcttcttt tctgctgtt cccaatgaag 240
tttcagatc agtggcaate tcagttccct tgctatgacc ctgctttgtt ctttcccag 300
aaacagtca gcagtacca ccaccacat gacattcaa gcaccacct aagccagcca 360
gagtaggacc agttagacct aggggtgtga cagctcctt catcttaaca ctgtgc 416
```

<210> 648

<211> 555

<212> DNA

<213> Homo sapiens

<400> 648

```
tcagtgacc tgaatcttc ccttaaccgt acagtttctc gatggaattg tgtgatcaga 60
aggtggaatt ctagtatag ggcacccag acccgcatc atgtctgtg tgcctctct 120
attgcacata cactgatttt tagcattgtc tattcctatt ttctcttgc ccattgtact 180
tccatatact tttcattaa cttacttgc gcctttttt ttcttggtg cacatttaa 240
taaagtaate cttaacctgt gctgtaaagt tcacccttgg catgctgttc caagaacctg 300
ggttgaate ccaatcgttg tgaacatac tcagtattga taaaccttt ttaataagt 360
atgcagagca gccaaaggata tttgaccca gatgtcaacc aggtatttt tatactaaa 420
acatgtcagc agagcatagg cagaataaaa tggtttaaat accccacagc aaatagagta 480
actgacaaac caccaaaaac tgaacccca gaccaccag aaagacaagt gtctagcaat 540
gccttggtac ctgat 555
```

<210> 649

<211> 343

<212> DNA

<213> Homo sapiens

<400> 649

```
ctgcccagcc tgagtggctc agatgggac cgtatcgaa ccgtctctga gtggtctgag 60
tccatacgca tgaacgcta catctgcac ttccactcgg ctgggctgga caccatggag 120
tgtgtgctgg agctgaccgc tgaggacctg acgcagatgg gaatcacact gcccgggcac 180
cagaagcgca ttcttcgag tattcaggga ttcaaggact gatccctct ctcacccat 240
gcccattcag ggtgcaagga gcaaggacgg ggccaagtc gtcctggtc actccctgcg 300
ccccctcca caacctgcca gactaggcta tcggtgctgc ttc 343
```

<210> 650

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (195)..(195)

<223> n is a, c, g, or t

<400> 650

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atactattt tgaagcacag cttacagat gagtatctat gatacatatg tataataaat 60
tttgattggg tattaaaagt attagaaggt gggtataatt gcagagtatt ccatgaatag 120
```

tacctgaca caggggtttt accttgagga ccagtgtagt caagggaata catgagtaa 180
 aaagaaaagc aggcnatatt gcagtcttga ttctgccact tacaggatag ataacgcctg 240
 aactttaatg acaagatgat ccaaccataa aggtgctctg tgcttcacag tgaatctttt 300
 ccccatgcag gagtgtgctc cctacaaac gtaagactg atcatttcaa aaatctatta 360
 gctatatcaa aagccttaca tttaatatata ggttgaacca aaatttcaat tccagtaact 420
 tctattgtaa ccattatt 438

<210> 651
 <211> 389
 <212> DNA
 <213> Homo sapiens
 <400> 651

tcccaagac ttactagtgc ccgataaact ttctcaaaga gcaaccagta tcacttccct 60
 gtttataaaa cctctaacca tctctttgtt ctttgaacat gctgaaaacc acctggctcg 120
 catgtatgcc cgaatttgta attcttttct ctcaaatgaa aatttaatt tagggattca 180
 ttctatat ttacatatg tagtattatt atttcttat atgtgtaagg tgaaatttat 240
 ggtatttgag tgtgcaagaa aatatatttt taaagcttcc attttcccc cagtgaatga 300
 tttagaattt ttatgtaaa tatacagaat gtttttctt acttttataa ggaagcagct 360
 gtctaaaatg cagtgggggtt tgttttgca 389

<210> 652
 <211> 385
 <212> DNA
 <213> Homo sapiens
 <400> 652

aaacagtgc tcacctacag acagtgaac ataaattagc agaattaaaa acacatatat 60
 gtgtaaccgc agcatttggt gacaactgtc tccagctgca tgaagcgaaa cgtttgact 120
 ccgccactgc ttgcatggcg aaatattggg catctgagtt acaaaatagt gtagcttacg 180
 actgtgtaca gctccatgga ggttggggat acatgtggga gtaccaatt gcaaaagctt 240
 atgtggatgc cagagttcag ccaatctatg gtggtacaaa tgaaataatg aaggagctga 300
 ttgcaagaga gattgtcttt gacaagtaga catctgcccc catctggag tctattaca 360
 gctaactcgc tttaaactc gctca 385

<210> 653
 <211> 464
 <212> DNA
 <213> Homo sapiens
 <400> 653

gtagactcgg ctgcggagta ctaccgcctc cacttgagg gctaccacgg caccgcaggg 60
 gactccatga gctaccacag cggcagtgct ttctctgcc gtgatcgga cccaacagc 120
 ttgctcatc cctgcgtgt ctctaccga ggggcctggt ggtacaggaa ctgccactac 180
 gccaacctca acgggctcta cgggagcaca gtggaccatc agggagtga ctggtaccac 240
 tggaagggtc tcgagtctc ggtgccctc acggaaatga agctgagacc aagaaacttt 300
 cgtccccag cggggggagg ctgagctgct gccacctct ctgcacccc agtatgactg 360
 ccgagcactg aggggtgcc ccgagagaag agccagggtc cttaccacc cagccgctgg 420
 aggaagcctt ctctgccag gatctgcag cactgtgtt acag 464

<210> 654
 <211> 479
 <212> DNA

<213> Homo sapiens

<400> 654

```

gacattcccg ctgcggacag ggaagaggca acctggccag cggcggcccg ctctgggggc   60
cggggtacgc gaccaccaa ccgagcagag gctttgggta cagaccccc agctactcga   120
cagcctacct gcttggcagc tatggtctt cccactgcaa actggaagcc cctcaccgt   180
gtccctccc tcagagtac cctaggctcc agggggaact gctgccacc tataccact   240
acctgcccc tggctctccc actccataca accctcccct tctgtgtgcc cccatgcccc   300
taaccacct ctaaccctca tggacgcaga cctcacggga cgggcctcat cctcctttt   360
taatccagca gcatcccta cccaggctg tcaaccttt ctctgttg actacgttc   420
agaggcagcc tgcagtctc ccatgatagc caggagagc cgcacaacat acaattata   479

```

<210> 655

<211> 469

<212> DNA

<213> Homo sapiens

<400> 655

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tcacaggct ccagttattc tccatctccc agctcagctt ttctgtctg taagcctgat   60
tttcaggaag gctcttctc agtgatggag atgaccacca tcagctccag gcttctatcc   120
tgtaaccca gtaaccagt gggaagagat ttacttattc caataattcc aagtggagag   180
tgtcattgac cgtttgggg tctcatctct actttaggg gaatgaaca ctttgagtgg   240
ccaggcctgt gtcattgtct aattctaga gccagggaaa taaggctga ggattcagga   300
tggggtgaaa ggtggttct taaaggaaa tgaaatacaa ttagcagaat aaggggaaac   360
gagtgtctg ctctgctcg gcaaaacaag agatgcccac tactgtgagg gaccctgaa   420
gtctggactc taaatgggt tttgctgat ttctgggtg catgctagg   469

```

<210> 656

<211> 445

<212> DNA

<213> Homo sapiens

<400> 656

```

aaggaagggc atcctctgc ctttttatt ttttaagct gtaaaaagag agaaaactta   60
tttgagtgat tattgttat ttgtacagtt cagttcctct ttgcatggaa ttgtaagtt   120
tatgtctaaa gagcttagt cctagaggac ctgagtctgc tatatttca tgactttcc   180
atgtatctac ctactattc aagtattagg ggtaatatat tgctgctggt aattgtatc   240
tgaaggagat ttctctctc acacccttg acttgaggat ttgagtatc tcggacctt   300
cagcttgaa catggactct tccccactc ctctatttg ctcacacggg gtattttagg   360
cagggatttg aggagcagct tcagttgtt tcccgagcaa aggtctaaag ttacagtaa   420
ataaaatgtt tgaccatgcc ttcatt                                     445

```

<210> 657

<211> 535

<212> DNA

<213> Homo sapiens

<400> 657

```

ccatcacctt ctcaactggg aaacctctga aatgctctca gagcacctct gacgcctgaa   60
gaagtatac ctctcttc cctttacca aataaagcaa agtcaaacca tcattggaa   120
acagtggcca ctttcaactg acctctctc gacatctagt caaccaccc aatatgccac   180
tgggtttcgc tcccaattcc acccaccct ccattacaga gtcaccacg cctctctaga   240
tcaccgtccc caacacacc attgcctctc aaggccctta tctagcccc ttctgtggc   300
catttcctc agtggccaga tgattccctg ggtgaggag acactggggc accctcagag   360

```

gttgagcag gctccctgct gtccctggat cctggacaga tggctcagta aactgtggga 420
 ctagggtcag acttttgcct tcttggagtc ctgggtctcc tctgagaggt ctgggtggtg 480
 ctctctctac gcctctagag gtctctgtgt tctcatttt ccttcaaaag cgggc 535

<210> 658

<211> 522

<212> DNA

<213> Homo sapiens

<400> 658

aataggcac tcacaatgac aaccagagcc agtttctgt cttttatcac atttgtcat 60
 cccagagact cggtatttgc ttactgtgt tcaagtagag gaaatcgtgg tcttgaacta 120
 ttctgtacca cagcaaaca tctatgtgc ttactatca actgctgtaa tegtattata 180
 aacttaccta gctccttccc ttctctatc atagctttaa acattagaat tcataggcaa 240
 atcagtaaa acattaggat cataggcaaa tcagttacct tgcagaaaga gctttgtatg 300
 acagacattg tcttatttta ttctgtaaa atattagctg tatgaatatg atttaattaa 360
 caagaaaaca ttcttctcg attgacaaca gtgttagcaa ggtgcaaagc gaaactggtt 420
 gctcaagttg atagaaaaca aaattctgaa tatcttcaaa ttaattcgtt aaaaacacat 480
 tatttttca tatgtgatgt attcatgcag aacaactatc tt 522

<210> 659

<211> 567

<212> DNA

<213> Homo sapiens

<400> 659

cgcttctgca agaccacgaa cacagtggag cctctgaggg ggaatctggt gaagaaggac 60
 tgtgcggagt cgtgcacacc cagctacacc ctgcaaggcc aggtcagcag cggcaccagc 120
 tccaccagt gctgccagga ggacctgtgc aatgagaagc tgcacaacgc tgcaccaccc 180
 cgcaccgccc tgcaccacag tgccctcagc ctggggctgg cctgagcct cctggccgctc 240
 atcttagccc ccagcctgtg accttcccc cagggaagge cctcatgcc ttcttcccc 300
 ttctctggg gattccacac ctcttcccc cagccggcaa cgggggtgcc aggagcccca 360
 ggctgagggc ttccccgaaa gtctgggacc aggtccaggt gggcatggaa tgcctatgac 420
 ttggagcagg cccacagac cccacagagg atgaagccac cccacagagg atgcagcccc 480
 cagctgcatg gaaggtggag gacagaagcc ctgtggatcc ccggatttca cactccttct 540
 gttttgtgc cgtttatttt gtactca 567

<210> 660

<211> 392

<212> DNA

<213> Homo sapiens

<400> 660

ggctggctca agaagcacgc gtactgtcc aacctcagct tccgcctcta cgaccagtgg 60
 cgagcctgga tgcagaagtc gcacaagacc cgcaaccagg acgaggggat cctgccctcg 120
 ggagacggg gcacggcgag aggtctgcc agataagctg taggggctca ggccaccctc 180
 cctgccacgt ggagacgcag aggccgaacc caaactgggg ccacctctgt accctcactt 240
 cagggcacct gagccacct cagcaggagc tgggggtggc cctgagctcc aacggccata 300
 acagctctga ctccacgtg aggccacctt tgggtgcacc ccagtgggtg tgtgtgtgtg 360
 tgtgagggtt ggttgagttg cctagaaccc ct 392

<210> 661

<211> 196

<212> DNA

<213> Homo sapiens

<400> 661

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tttcataac tgagcccact cgcaagtgg agccatcagt gggatacgcc acattttgga 60
agccccagca tcgtgtactt accagtgtgt tcacaaaatg aaatttgtgt gagagctgta 120
cattaaaaaa aacatcatta ttattattat ttgcagtcac ggagaaccac ctaccctga 180
cttctgttta gtctcc 196
```

<210> 662

<211> 489

<212> DNA

<213> Homo sapiens

<400> 662

```
aaagcccttc atctaattt tgttgctatt gccaatttt caatgaaatg acctaaaaac 60
aacaaaaaaa aataacctat acggtagtgt ctttaggggg tgggggggatg ctatctgtta 120
gtgcttaaaa gggggtaaat gcttgccgct ttagaggtgg atggtgctca taaaaggccc 180
cagtcggggg tatttaaaaa ggactgaaca gaaatcctta gctagtagaa tggcagcacg 240
ctgtaaaatt attactgtat tgtgtactgg ctataagatg tagacacctt tcagtaagcc 300
aatcatttgt aaccattcta gcagtgtcat attagggtta taaggctgct gtgttttaaa 360
gggcattttt atttgggttt tggtgaaatt cttaatttg ttgattatat tcacataaaa 420
tcagcattca ttgacacata gctctaata catatgtatg aaaaaccata cactggatga 480
cctagtcga 489
```

<210> 663

<211> 386

<212> DNA

<213> Homo sapiens

<400> 663

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cgccctggca cggtgctgag aattcgcggc ttggttcctc ccaatgccag caggttccat 60
gtaaacctgc tgtcggggga ggagcagggc tccgatgccg cctgcattt caacccccgg 120
ctggacacgt cggaggtggt ctcaacagc aaggagcaag gctcctgggg ccgcgaggag 180
cgcgggcccg gcttccttt ccagcgcggg cagcccttcg aggtgctcat catcgctca 240
gacgacggct tcaaggccgt ggttggggac gccagtagc accactccg ccaccgcctg 300
ccgtggcgcc gcgtgcgcct ggtggagggt ggcggggacg tgcagctgga ctccgtgagg 360
atcttctgag cagaagccca ggcggc 386
```

<210> 664

<211> 523

<212> DNA

<213> Homo sapiens

<400> 664

```
gagagggcat atgcatectc tgcctgac taggtgtcta tagctgagg gtaagaggtt 60
gtttagttg tcttggtgcc tccatcacac tctccctact tgcctcatat ttgaagggg 120
aggggatttg gggctggggc tccattcacc aaagctgagg tggttctca ttaaccctt 180
aggactctga agggatgga cctacgtgaa tgtgtgtcag ggggagactt gctggtgggt 240
tagtggctct caggatgtga taaaacatc cagtgtaaaa aggaagttgg aatgggagtt 300
ggcgggcagt gaacgagtgt ggggaaggat tgggtctggg gcaacaggaa ggggcctggg 360
gccgtttggc tgcactaact ttggtagctc agtgtgcac taaagtggga ctggggaggg 420
agctaagctt gggctgggct gcttggggct tggcataggg tggaaagggc taccctgggg 480
cttctgacct ccctgtagta tgtgtggagg gtgccctccc gtc 523
```

<210> 665
 <211> 446
 <212> DNA
 <213> Homo sapiens
 <400> 665

```
aagagggccc agcaaggtaa ttatggttg agctgatgc aattggttct tgtcttgagt   60
cgactcaatt tagcccaagt gctgaacaa gaaatgtcat tttttcatc aaagacacca   120
gggcagattt ttaagtaaag aaagacaatt ggacccttaa gaatttatgc atttgtaaag   180
ttgctgttga tccaatatt ttcaagccat gtaatccatt ggttttgtgg gcagtttaat   240
aaacctgaac ctttgtgtg ttctaatgt tacctgagtt gaccatcctt tcttttata   300
gtatatttct tgtatgatat ttgtaaagc tctcacctgg ttcttttatg gggacttttc   360
gtttttgggc aactccagtg tatttatgtg aaactttata agagaattaa ttttccatt   420
tgcataattaa tatgttctc cacaca                                     446
```

<210> 666
 <211> 554
 <212> DNA
 <213> Homo sapiens
 <400> 666

```
gttttggttt tgactcacct gaaagtttt ttggtttaa agaagaatag gcggggcacg   60
gtggctcatg cctgtaatcc cagcactttg ggaggctgag gcagggtgat cacgaggta   120
ggagatcgac accatcctgg ctaacacggt gaaaccccg ctctactaaa aaatacaaaa   180
aattagctgg gtgtggtggt ggggggtgggc gcctgtgatc ccagctacgt gggaggctga   240
ggcagcagac tgggtgaac cggggagggtg gagcttgagc tgagccgaga tcgcgccact   300
gcactccagc ctgggcgaca gagcgagact ccatcctaaa aaaaaaaaaa aaaaaaagaa   360
agaaagaaaa ataattttgg gagtttctgg aaaggacta ggatttctca aaaggatttg   420
tcttctccct tgtgaaagac agatgtcaga ctaatcaggc ttatccgatg tgctacatga   480
gatggaaatg cgtgtgaaat agtaagtcac actaagtctt ctggagggtc tatttacggg   540
tttggtttga tatg                                     554
```

<210> 667
 <211> 504
 <212> DNA
 <213> Homo sapiens
 <400> 667

```
gaaagagcta gattctctct ctcaaaaaaa aaaaaaaaaa ggaaagaaag aaagaaaaga   60
aaagaaaatc cctttttgct ttaacttgcc ctgacaggtt ttagaaaact caattgttga   120
aatttgggtg gataaatttc tggattttct atctattcca tgttggacca ataccacact   180
gccctagtca ctgttgcat atagtataac tttaaaggag taatgggaat ccttcaacta   240
catttttttc cccaataatt ttggctatt ctgcttcttt tgtgtttcta tgtaaatttt   300
atcatcagtg tgtctatttc tacaatagt cctgataggg ttgaattgg gatttctgtg   360
aatctataga tcaatctgag gagacttaat aatgatattg attctccaa tcatgaata   420
tagtatcccc ctgtatttat ttgtttctt gaatttctt tatcattgtt ttgtagtttt   480
caccatgaca gtcttcgaca tatt                                     504
```

<210> 668
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 668

caaaggcatt acctgcctca tcgatattat aggggtccat cacaacccaa ctgtgtggcc 60
 ggatcctgag gtctacgacc ccttccgctt tgaccagag aacagcaagg ggaggtcacc 120
 tctggctttt attcctttct ccgcagggcc caggaactgc atcgggcagg cgttcgccat 180
 ggcgagatg aaagtgggtc tggcgttgat gctgctgcac ttccggttcc tgccagacca 240
 cactgagccc cgcaggaagc tggaattgat catgcgcgcc gagggcgggc ttggctgcg 300
 ggtggagccc ctgaatgtag gcttgcagtg actttctgac cc 342

<210> 669

<211> 463

<212> DNA

<213> Homo sapiens

<400> 669

gagagattat ttctgtggtc taaaggtaa aaagccaaca acctgttacc aattatttca 60
 gcttttttg tttaataag tgtgacaact taaaacttgt ttctatttaa agtgaaatgt 120
 atcttcaac tgtttagtta cccagctgtt taatattcca gtcttccaa agtgaaaaga 180
 ttgtataca aatgtttct atgtattaat aaaaatatat ggcacaaaa accacttcgc 240
 cgggtcgcgc ccgcagggcc gggcccgga gacgcgccg cagccccgc accttgcca 300
 agtttcaac ccgggaaaat aaacgtaagc taaggatccc ccccatgtat ccaacctcat 360
 gctctatggg acccaggcca tcccgtgag gttctccaga tcttccatgc ctggacgaa 420
 aggtgttga tactggtgc atcatgacac caaatctata gtt 463

<210> 670

<211> 459

<212> DNA

<213> Homo sapiens

<400> 670

tgagcctggg gttctggtgt tagaatatt ttaagtaggc ttactgaga gaaactaat 60
 attggcatac gttatcagca acttcccctg ttcaatagta tgggaaaaat aagatgactg 120
 ggaaaaagac acaccacac cgtagaacat atattaatct actggcgaat gggaaaggag 180
 accattttct tagaaagcaa ataaactga ttttttaa tctaaaatt acattaatga 240
 gtgcaaaata acacataaaa tgaaaattca cacatcacat ttttctggaa aacagacgga 300
 ttacttct ggagacatgg catacggtta ctgacttatg agctaccaa actaaattct 360
 ttctctgcta ttaactggct agaagacatt catctattt tcaaatgttc ttcaaaaca 420
 ttttataag taatgttgt atctatttca tgctttact 459

<210> 671

<211> 265

<212> DNA

<213> Homo sapiens

<400> 671

ccggaaccga cgagtcctga ggagagaacc ggtgcgtcct gaggagagaa ccggcgctgg 60
 gcaacacggg cctgcaaact cgacaggacc ctgcccagg ggccctcgc ccaacctgga 120
 ccggtcccc cctctccgc tgcccaatct ctacagacca cccacctgc aggccagac 180
 cacgtgggac agaactcctg cccaccctac cccgaggag gcgaaccgc acttccaggc 240
 ttggaggac catggggcac aatgc 265

<210> 672

<211> 478

<212> DNA

<213> Homo sapiens

<400> 672

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gagtggaatg ctctctagaa gttactgaat gcaccatggg caaacggat tagggcattt   60
gagaaatgca tattgtatta ctagaagatg aatacaaca atggaaactg aatgctccag  120
tcaacaaact atttcttata tatgtgaaca ttatcaatc agtataatc tgtactgatt   180
tttgaagac aatccatgta aggtatcagt tgcaataata ctctcaaac ctgtttaaatt  240
atttcaagac attaaatcta tgaagtatat aatgggttca aagattcaaa attgacattg   300
ctttactgtc aaaataattt tatgggtcac tatgaatcta ttactactgta ttaagagtga   360
aaattgtctt ctctgtgct ggagatgttt tagagttaac aatgatatat ggataatgcc   420
ggtgagaata agagagtcac aaaccttaag taagcaacag cataacaagg tccaagat   478
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<210> 673

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (215)..(215)

<223> n is a, c, g, or t

<400> 673

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aatcacccaa ggatggatat caggagaata tctctggaaa atacatacaa actgtttatt   60
caactctga taggtctgtc attgaaagag atatgtgcac ttactgccga aaaccttgg   120
gtgtagaaac taaatgatt ttagatgaat tacaaattg ctgccattct acttgcttta   180
agtgtgaaat atgcaagcag cctttggaaa atctncaagc gggatgatgt atttgattt   240
atagacagac aatacactgt gaaccttgct actctaaaat tatggcaaag tggattccat   300
aactctggca caaggaaatc aagatgaaaa gcactcatta aggaattaaa gttacaagtt   360
ttatctaat aatatgtaat ctagaaaagc ttacacattg aagatcaact ctgtacaaa   420
attaacaatt ctgttattgc ataagtaatc taattgtctt caataaggtc acacacataa   480
aaagagccat ctggtctctg gctagagtta gca                               513
```

<210> 674

<211> 514

<212> DNA

<213> Homo sapiens

<400> 674

```
gaatatttcc cacaagatgc tgcaatgtga gttatcactt catttatctt aaagaaagac   60
taaactgggt gtcagttaca tctgacagaa aaaaaaaaaa aatcactgtg taaccagggt   120
aagtgtgtaa ataaccagg gcgtcagtc aaggcatttt gctgacttta atattgatta   180
tatttttaac agggaattta aggaaaatat tacctgggaa ttaaaaaata tatatatatt   240
aaaacaagaa tttcctttg cctctgtcta gcttaaacct actacctcaa gctgcttaag   300
ttccttaagt attgtttgta atcaccaata aataagtgc tttgtaattc atcagtcatt   360
attagctttt attaaaagaa gattacgttt tacaatgtaa ctataatctc ttgaatttgg   420
tatcttatta atgagtttta aagatgtaaa acctaacctt ttttaagct ccattgtctt   480
atgtttttag aggcttttcc gtaaacatat atct                               514
```

<210> 675

<211> 387

<212> DNA

<213> Homo sapiens

<400> 675

```

tccagcggag gccacaagtc ctctcttcc ggggccgtgg gcgagcttc atctaaggga   60
ccaagatact aacaaaacca gagtaatcaa gacaattatt gaagagggtg cgcccgcg   120
tagagttctt tcactacgg ttgaatcaga aaccaagaaa cactactatt aaactgcatg   180
aatctccctt cacacagacc attatttaca gatgcatgga aaacaaagtc tccaagaaaa   240
cactctgtc ttgatgtct atggaatag accttgaaaa taagggtgtt acaagggtgt   300
ttgtggttc cgtattctt ctttcaactt taccagaaag tgttcttaa tggaaagaaa   360
aacaacttct tgttctcatt tactaat                                     387

```

<210> 676

<211> 520

<212> DNA

<213> Homo sapiens

<400> 676

```

ttaccatgg accgggaagt gcgcaaaatc aaacaaggcc tgggcttgaa atttctgag   60
ctgggtata cgggtttacg gctagccct gagtgtgaat ttgtccgcc ctgcacgcc   120
aagtcaccagg agcgagtga agggaaagt caggtgtccg tctcaaggg ccagggtgac   180
atcctcgcc gggagtcctt actgtctctc tacaatgagg agctggtgag catgaacgtg   240
cagggtgatt atgagccaac tgatgccacc ggggtcatca acatcaatc cctcaggctg   300
aaggaatata atcgtctcca gagcaaggtc actgccaat agaccctgt acaatgagga   360
gtcggggcct cctcaattg cagatcccc aagtacaggc gctaattgt gtgataatt   420
gtaattgtga cttgtctcc cggctggca gcgtagtggg gctgccaggc cccagctttg   480
ttcctggtc cccctgaagc ctgcaaactg tgcatcgaa                                     520

```

<210> 677

<211> 465

<212> DNA

<213> Homo sapiens

<400> 677

```

gcactatgt ttgtgccta cctagctgca tctataatgt cagcttacc taaggctgtc   60
cacgtactta attacttaa gtgttcatt taagtaactg gctcactgtg tataggaatt   120
tgtatttgg aggtgcttga tctatctaca aaagaaaaaa ttaattagga attacttat   180
tataaatgc tctagaagt ctttaattgt ttatttttt aaaaaacaa atgttagact   240
tgtgtcatg gaagtaatta aggtacatca ttattgagt ttgaaagtg tacatgataa   300
gacatttgt tttactgta tgttttact gaatgatcta tccccatcc caaggcaagc   360
atgaataaaa ttaggtaaa cgtagcatgt ggcacgcag tccttagaa ttgtttcat   420
ctattttatt ttattgaata ctgtctgtat ctttggttat cctgt                                     465

```

<210> 678

<211> 548

<212> DNA

<213> Homo sapiens

<400> 678

```

agtctgctga agaggcattg cacagatcaa acaaggatgg atcatttctt attcgaaaa   60
gctctggcca tgattccaaa caaccatata cactagttgt attcttaat aagcgagtat   120
ataatattcc tgtgcgattt attgaagcaa caaaacaata tgccttgggc agaaagaaaa   180
atggtgaaga gtactttgga agtgttctg aaatcatcag gaatcatcaa catagtcctt   240
tggttcttat tgacagtcag aataacaaa aagattccac cagactgaag tatgcagtta   300
aagtttcata aagggggaaa aaaaagatca ataccattgc ttcagacact tccccaaagt   360
ttctctttt gagaaaaagt cccaaaactt catattttgg attatgaatc atccagtaat   420

```

aaaatggaag atggagtcag ctattgaagt ggtcatccat ttcttttaa gaagctcatg 480
 tggacttggt ctattgcctg acctgatgaa ctgttaatat ctggtagagt tgagttatca 540
 tgctacta 548

<210> 679

<211> 345

<212> DNA

<213> Homo sapiens

<400> 679

gggattggca gcggtgcac catcagtggc gggggctccg tctgcggagg tggttcctct 60
 ggagggcgcg gcggcggtc ctccgtgggt ggctccggga gtggcaaggc cgtcccgatc 120
 tgccaccaga cccagcagaa gcaggcgcct acctggccgt ccaaatagat cccccagggt 180
 accacggagg cgaaggaggt ggaggtggtt tccaggggca ccgatgggct tagagctctc 240
 atgatgtac ccgaggttg caaatcctc atgtctaac ctacctgaa gaagccattg 300
 agctctccgg ctgcatctag ttctgtgtt tagcctcttt gggtt 345

<210> 680

<211> 474

<212> DNA

<213> Homo sapiens

<400> 680

ttattcttag cgtcactggt ctggcttca gaattaacat acaaggttgc cacacctagt 60
 tctgcccgag ttatgtctt ttattccagt attccacaa agtttgttt cctgcattcc 120
 agttctcaag tcttaagata aagattgtac ttgacagttt agtatatcca taaaactatt 180
 tgaggtggtt aaggttcttg ggttcatttt ccttaatact ttgctgaata ttgtagattg 240
 taggcaatga aaaagtctac taaattagga aaacctgaa taattaggta tcttaggtaa 300
 gagccccaa acatcaagca atctgtgagt ctgtaaagaa ataaatatt ttggattat 360
 tcttatctaa ttccaccct gttggaagat gatttcttt ttctttgcaa ctatggaagc 420
 tgtgaaaatc atcacaagtg cctctgaaag cgagtgttag gttggttaga ggggt 474

<210> 681

<211> 479

<212> DNA

<213> Homo sapiens

<400> 681

gctggaggtg acgctactga gaactttgag gatgtcgggc actctacaga tgccaggga 60
 atgtccaaaa cattcatcat tggggagctc catccagatg acagaccaa gttaacaag 120
 cctccagaac cttaaaggcg gtgtttcaag gaaactctta tcaactatct tgattctagt 180
 tccagttggt ggaccaactg ggtgatccct gccatctctg cagtggccgt cgccttgatg 240
 tatgcctat acatggcaga ggactgaaca cctctcaga agtcagcgca ggaagagcct 300
 gctttggaca cgggagaaaa gaagccattg ctaactactt caactgacag aaaccttcac 360
 ttgaaaacaa tgattttaat atatctctt cttttcttc cgacattaga aacaaaacaa 420
 aaagaactgt cttttctgcg ctcaaattt tcgagtgtgc cttttatc atctacttt 479

<210> 682

<211> 460

<212> DNA

<213> Homo sapiens

<400> 682

tgaagctttt ggttccagcg tgacctctc tttagataa agatgagccc ccaccaccac 60

cgactctccc aaccagact ctcccactcc agaattgtaga agcctgtctc tgtacctcta 120
 actggcagca agttaaattt ttgtcattta tctctgatgg cactttgagg gaaaagaatg 180
 tccacataca gtttttgaag gatctctctc ccaaccagc tagttagagc cagtgacgcc 240
 tctgtgttct ggggcgggaat ctgtgctgtc taggtttgtg cttctagcca tgcccattcc 300
 cgccccacc atgcctcttt gcaattgccc tttccagat gtgtattctg ttgaggaccc 360
 aggcccatcc agggatttca tctctaagcc tggcagtgtc ggggggaaat gtgtttctgt 420
 gtatatagct cctctgtccc actctgcttt cggaagtgtc 460

<210> 683

<211> 493

<212> DNA

<213> Homo sapiens

<400> 683

gtgagttatc acttcattta tcttaaagaa agactaaact ggtgtcagt tacatctgac 60
 agaaaaaaaa aaaaaaatca ctgtgtaacc aggggttaagt ggttaaata atccagggcg 120
 tcagtcaaag gcattttgct gactttaata ttgattatat ttttaacagg gaatttaagg 180
 aaaatattac cggggaatta aaaaatatat atatattaaa acaagaattt tcctttgccc 240
 ctgtccagcc taaacctacc tacctcaagg ctgcctaagt tccctaagtat tgtttgtaat 300
 caccctaata ataagtgcac ttgtaattca tcagtcatta ttgctttta ttaaagaag 360
 attacgtttt acaatgtaac tataatctct tgaatttggt atctatttaa tgagttttaa 420
 agatgtaaaa ctaaccttt ttaaagctc cattgtctta tgtttttaga ggctttccg 480
 taaacatata tct 493

<210> 684

<211> 343

<212> DNA

<213> Homo sapiens

<400> 684

aagggaagag ctaggctgag caacatgaag gggcccccaa cctctgcag cctcctgctg 60
 ctgtcattgc tctgagccc agacctaca gcagcattcc tactgccacc cagcactgcc 120
 tgctgtactc agctctacc aaagccactc tcagacaagc tactgaggaa ggtcatccag 180
 gtggaactgc aggaggctga cggggactgt cacctccagg ctttctgtct tcacctggct 240
 caacgcagca tctgcatcca cccccagac cccagcctgt cacagtgggt tgagcaccaa 300
 gagagaaagc tccatgggac tctgcccaag ctgaattttg gga 343

<210> 685

<211> 522

<212> DNA

<213> Homo sapiens

<400> 685

ctaaaatttg ttaccacatc attgcttctt ttctacagga cgaattgagg cttaaacttt 60
 actgttaatg atactggtc attttaatgt gcttggttgt atgttctat ttttcattc 120
 atagctttca aaaatcatgc taattgtata cttgtctagt ttaaggctat tttaaaatat 180
 gtacaatact attcacagca tttagttcgt ttaattttta ttataagca atctactaaa 240
 aaagtacaac tgtatttgaa cttttcaata gttgtttgtg agctatgata atcaaaagtc 300
 attaaagtct ttttaacaa acattcgtgc ttactttca acataattcc cagttatata 360
 cagaaaaaga ttccacctg tcacgtatct gcctctttta cctgagcaat ggtgtagttc 420
 tttagacctaa ggtctgtaat tgcaatactt ttaaagaaag atgttgctct aagtgtgtt 480
 tgttagttat gaaatcagat ttttctgctt gttcttaatg ct 522

<210> 686
 <211> 555
 <212> DNA
 <213> Homo sapiens
 <400> 686

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catttactac agtgtctcag ccttgataaa gggcagtgga ttgctgttg ttcggtgtg   60
tgaatagcac ctctgaataa gattagagtg ttcttaatt cattcaaac tctaaaatta  120
gattaatggt ggtgctaaga aagagtatta attactttgg gaatggtaa aattaacatt  180
aaaaacattt tagacaaaaa gtttcattgt acattcaaag aaaatgtaag ttggaagta  240
ctaaaagact attttatact tgttgattaa tcggaatgtt tgtgtatgc cttcattttc  300
catttcactt atatgtgcat gtccatatat gttaattttc attgtagcaa agctaagga   360
aataaagcta atgctctagt tgaagaaaaa ggaaaactcc tgaatccta gaatgtcttg  420
ttatttttag ctgactgtaa aatattatga acagtctttg tgtattgtgc ttaatgcttt  480
tgaagaaac agaatttgaa atatttcac cttgtcatgc tcaaaatttt gttacatgct  540
tgttattcag agtat                                     555
```

<210> 687
 <211> 455
 <212> DNA
 <213> Homo sapiens
 <400> 687

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gaaatttttg tcactccag aggtgagaca agccatccac gtggggaac agacttttaa   60
tgatggaact atagttgaaa agtactgcg agaagataca gtacagtcag ttaagccatg  120
gttaactgaa atcatgaata attataaggt tctgatctac aatggccaac tggacatcat  180
cgtggcagct gccctgacag agcactcctt gatgggcatg gactggaaag gatccagga  240
atacaagaag gcagaaaaaa aagtttgaa gacccctaaa tctgacagtg aagtggctgg   300
ttacatccgg caagcgggtg actcccatca ggtaattatt cgaggtggag gacatatttt  360
accctatgac cagcctctga gagcttttga catgattaat cgattcattt atggaaaagg  420
atgggaccc tttgttgat aaactacctt cccga                                     455
```

<210> 688
 <211> 382
 <212> DNA
 <213> Homo sapiens
 <400> 688

```
gatagcaaac actgggggca ccttaagatt ttgcacctgt aaagtcctt acagggtaac   60
tgtgtgaat gcttttagat aggaaatgat cccaagtgg tgaatgacac gcctaaggtc  120
acagctagtt tgagccagtt agactagtcc cccggtctcc cgattcccaa ctgagtgtta  180
ttgcacact gcactgtttt caaataacga tttatgaaa tgacctctgt cctccctctg  240
attttcata ttttctaaa gtttcgttc tgttttttaa taaaagcctt tttcctctg   300
gaacagaaga cagctgctgg gtcaggccac ccctaggaac tcagtctgt actctggggt  360
gtgcctgaa tccattaaaa at                                     382
```

<210> 689
 <211> 451
 <212> DNA
 <213> Homo sapiens
 <400> 689

```
agcaggtctc ccacagtaa tgggtgggaga agccgggcct acatgcccc gcggagccgc   60
agccgggacg acctctatga ccaagacgac tcgagggact tcccacgctc ccgggacccc  120
```

cactacgacg acttcaggtc tcgggagcgc cctcctgccg accccaggtc ccaccaccac 180
 cgtaccgggg accctcggga caacggctcc aggtccgggg acctccccta tgatgggagg 240
 ctactggagg aggcctgtgag gaagaagggg tcggaggaga ggaggagacc ccacaaggag 300
 gaggaggaag aggcctacta cccgcccgcg ccgccccgt actcggagac cgactcgcag 360
 gcgtcccag agcgcaggct caagaagaac ttggccctga gtcgggaaag tttagtcgtc 420
 tgatctgacg tttctacgt agcttttga t 451

<210> 690

<211> 358

<212> DNA

<213> Homo sapiens

<400> 690

ggagcagtgg actgccacaa gccaccatgt aacccctctc acctgccgtg cgttctggct 60
 gtggaccagt aggactcaag gtggacgtgc gttctgcctt cttgttaat tttgtaataa 120
 ttggagaaga tttatgtcag cacacactta cagagcacia atgcagtata taggtgctgg 180
 atgtatgtaa atatattcaa attatgtata aatatattac aaggagtat 240
 tttttgtatt gattttaaat ggatgtccca atgcacctag aaaattggc tctcttttt 300
 taatagctat ttgctaaatg ctgttcttac acataatttc ttaattttca ccgagcag 358

<210> 691

<211> 473

<212> DNA

<213> Homo sapiens

<400> 691

ccccgaacg tgttttgcga catggagact gatggggggc gctggctggt gttccagcgc 60
 cgcatggatg gacagacaga cttctggagg gactgggagg actatgccca tggttttggg 120
 aacatctctg gagagttctg gctgggcaat gaggccctgc acagcctgac acaggcaggt 180
 gactactcca tgcgcgtgga cctgcgggct ggggacgagg ctgtgttcgc ccagtacgac 240
 tcttccacg tagactcggc tgcggagtac taccgcctcc acttggaggg ctaccacggc 300
 accgcagggg actccatgag ctaccacagc ggcagtgtct tctctgcccg tgatcgggac 360
 cccaacagct tgctcatctc ctgcgtgtc tctaccgag gggcctggtg gtacaggaac 420
 tgccactacg ccaacctcaa cgggctctac gggagcacag tggacatca ggg 473

<210> 692

<211> 521

<212> DNA

<213> Homo sapiens

<400> 692

tagcccttgt ttttaacaca cgctccagcc cttcatcagc ctgggcagtc ttacaaaat 60
 gtttaaagt atctcagagg ggcccatgga ttaacgccct catcccaagg tccgtccat 120
 gacataacac tccacaccg cccagccaa cttcatgggt cactttttct ggaaaataat 180
 gatctgtaca gacaggacag aatgaaactc tgcgggtctt tggcctgaaa gttgggaatg 240
 gttgggggag agaagggcag cagcttattg gtggtcttt caccattggc agaaacagt 300
 agagctgtgt ggtgcagaaa tccagaaatg aggtgtaggg aattttgcct gccttctgc 360
 agacctgagc tggctttgga atgagggtta agtgtcaggg acgttgctg agcccaaat 420
 ttagtgtgg tctgggcagg cagacctta ggttttgctg cttagtcctg aggaagtggc 480
 cactcttggt gcaggtgtag tatctggggc gagtgtggg g 521

<210> 693

<211> 388

<212> DNA

<213> Homo sapiens

<400> 693

```
ctgggattac aggcttgagc ccccgcgccc agccatcaaa atgcttttta ttctgcata   60
tgttgaata ctttttaciaa tttaaaaaaa tgatctgttt tgaaggcaaa attgcaaate   120
ttgaaattaa gaaggcaaaa tgtaaaggag tcaaaactata aatcaagtat ttgggaagtg   180
aagactggaa gctaatttgc ataaattcac aaacttttat actctttctg tatatacatt   240
tttttcttt aaaaaacaac tatggatcag aatagccaca tttagaacac tttttgttat   300
cagtaaatat ttttagatag ttagaacctg gtcctaagcc taaaagtggg cttgattctg   360
cagtaaatct ttacaactg cctcgaca                               388
```

<210> 694

<211> 565

<212> DNA

<213> Homo sapiens

<400> 694

```
aatgctcaga agttgcctat gtgtgacaaa tgtggcactg ggattgttgg tgtgtttgtg   60
aagctgcggg accgtcaccc ccacctgag tgttatgtgt gactgactg tggcaccaac   120
ctgaaacaga agggccattt ctttgtggag gatcaaatct actgtgagaa gcatgcccg   180
gagcagtgca caccacctga ggggtatgaa gtggtcactg tgttcccaa gtgagccagc   240
agatctgacc actgttctcc agcaggcctc tgctgcagct tttctctca gtgttctggc   300
cctctcctct ctgaaagt ctctgcttac ttgtgtttt cctctgcttg taaaacattg   360
agtcctctcc ctgcttgggt taattgactc acaccagctg tgcgatgccc gcttttacia   420
ttaaaggaaa actgttttgt tcagtgtcac ctgtgcagca aactgtgtc ccttcgcccc   480
accgttcttc tctgtgcat ttggacatca gccaaatttg aaccaatca aatataacgt   540
gtctgacact gattttgttt ttact                               565
```

<210> 695

<211> 564

<212> DNA

<213> Homo sapiens

<400> 695

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tagaccatct ccatttttag cacttggcag cctcatgac cttttataaa tgtgagatta   60
acaggagagc agcaatacga ttttgccaat ggaataacag atttgccggc attcactgaa   120
agagggcaga tattgggtcc ttgtaacttc aactgactct tccaaattgt atgaatttat   180
caatgtatta cacaaatcca gtttcagaat gataaaaaat gtagaccaa ataatgcggc   240
taattaacag tcgtatgatt tctagcccat gggtttaaaa ctgtatctta aagagtcatt   300
ttaaaataat ataaatatta aaaaatgtaa ctgctatctt aatgttctga aataaaacat   360
tttaaatat aaatcctgta gtttaaaagg aagaaatggt gggaaggaaa agtagagaaa   420
gaaatgccaa ttacaggcca aagcgttatt tgccaagttt tcttagaatg aattttacca   480
atgtatgagt tcttgtaac agaattgtga acggaaatac tgaaagactt ttgcttaaag   540
tggcattatt gactgtgat gtga                               564
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<210> 696

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (431)..(431)

<223> n is a, c, g, or t

<400> 696

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gaaggetgga ttctatctac ataagtcctt tcaattccac cagggccaga gcagctccac   60
cactgtgcac ttagccatga tggcaacaga aaccaagaga cacaattacg caggtattta  120
gaagcagagg gacaaccaga agggccctaa ctatcaccag tgcacacat ctgcacactc  180
tcttctccat tccctagcag gaacttctag ctcatthaac agataaagaa actgaggccc  240
acggtttcag ctagacaatg atttggccag gcctagtaac caaggccctg tctctggcta  300
ctccctggac cagcaggetg attcctctca ttccagctt ctcatgttct gcctgggcaa  360
tggccagggg ccaggagtgg ggagagtgt gatggagggg agaggggtca caccacccc  420
ctgcctgggt ntaggctgct gcacaccaag gcctgcac tgtctgctct gcatatatgt  480
```

<210> 697

<211> 525

<212> DNA

<213> Homo sapiens

<400> 697

```
atttagtaa ctggcccaag gcagcgaggc ttctacagtc ccacacccca tagccgctg   60
ggctggggct tactgggggc tgaaggttct ggacatgaac aagggtcagg tagaagagaa  120
aggctcccc tacacccag cctctgctg tccctgaag cccaggactg cgttgtatgc  180
ttccatcca ctaccttac cccatagcat ctgcggccc agaaaccaga gccattgtc  240
tcagacccta aatcaataat cacaacccc aaaacgggag agagcagtga aaacatgcag  300
ggctgtggac gggggaaggg ttgtggcggg tttctgagg ctgagaggac acctatatgc  360
gtatttctc tacacacatc accccccttc tataatctta agccatgact agcctggtgg  420
cgtgttagtt tctgccagt tctacccct catgtgcttc ttctgaatac tgaatgtgac  480
tgttgaaag ctggtagaat tcatccctct tactgtagat aacac                    525
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<210> 698

<211> 552

<212> DNA

<213> Homo sapiens

<400> 698

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atgtcatcgg tatttcaacc ggagtaaatt gctagatttc tgcaagtga aagatattgt   60
tctggtgcc tatagtgtc tgggatctca acgagacaaa cgatgggtgg acccgaactc  120
cccggtgtc ttggaggacc cagtcctttg tgccttgga aaaaagcaca agcgaacccc  180
agccctgatt gccctgcgt accagctgca gcgtgggggt gtggtcctgg ccaagagcta  240
caatgagcag cgcacagac agaactgca ggttttgag ttccagttga ctgcagagga  300
catgaaagcc atagatggcc tagacagaaa tctccactat tttaacagtg atagttttgc  360
tagccacctt aattatccat attcagatga atattaacat ggagggtctt gcctgatgtc  420
taccagaagc cctgtgtgtg gatggtgacg cagaggacgt ctctatgccg gtgactggac  480
atatcacctc tactaaatc cgtcctgttt agcgacttca gtcaactaca gctgagtcca  540
taggccagaa ag                    552
```

<210> 699

<211> 503

<212> DNA

<213> Homo sapiens

<400> 699

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ttacagtga gtttagttaa tctattaata ctgactcagt gtctgccttt aaatataaat   60
gatagtgtga aaacttaagg aagcaaatgc tacatatatg caatataaaa tagtaatgtg  120
```

atgctgatgc tgttaaccaa agggcagaat aaataagcaa aatgccaaaa ggggtcttaa 180
 ttgaaatgaa aatttaattt tgttttaaa atattgttta tctttatta ttgggggta 240
 atattgtaag ttttttagaa gacaatttc ataactgat aaattatagt ttgtttgtt 300
 agaaaagtag ctcttaaaag atgtaaatag atgacaaacg atgtaataa ttttgaaga 360
 ggcttcaaaa tgtttatacg tggaaacaca cctacatgaa aagcagaaat cggttgctgt 420
 ttgcttctt ttccctctt atttttgtat tgtggtcatt tcctatgcaa ataatggagc 480
 aaacagctgt atagttgtag aat 503

<210> 700

<211> 497

<212> DNA

<213> Homo sapiens

<400> 700

gtgaaacaat tccaggcat gccccctgc acatacaca tgccaagtca gtttctcca 60
 caacaggcca ctactttcc cccgtcacca ccaagctcag agcctggaag tccagataga 120
 caagcagaga tgcctcagaa tttaaccca cctccatcct atgctgctac aattgcttct 180
 aaactggcaa ttcaaatcc aaatttacc accaccctgc cagttaactc acaaaacatc 240
 caacctgtca gatacaatag aaggagtaac cccgatttgg agaaacgacg catccactac 300
 tgcgattacc ctgggtgcac aaaagtatt accaagtctt ctcatttaa agctcacctg 360
 aggactcaca ctggtgaaaa gccatacaag tgtacctggg aaggctgcca ctggaggttc 420
 gcgcgatcgg atgagctgac cgcctactac cggaagcaca caggcgccaa gccctccag 480
 tgcggggtgt gcaaccg 497

<210> 701

<211> 505

<212> DNA

<213> Homo sapiens

<400> 701

tgaacgaatt tatttcccc tcagttttg agggcattaa aaaggcata aatcaagaca 60
 aatcatgtgc ttgagaaaaa taaaattaat gaaaacacag cacttatgtt ggtttagctg 120
 cagcctcctt ggaggtagaa tttatttatt taaaattact ggttgcata agaaccata 180
 ggggtgtaca aagggttctat aaaatctgca ttatagagac aaagaggcag gcaaatccat 240
 gtcacaaggg taagcttac agtttcaaaa ctgggaacgc cagggtgtag gatataaaa 300
 cgcactcttg agaaaacaaa tgtaatcagg gtgctgaaaa cttgcatggt gctttcagac 360
 attagccttg ttaacaaat ttctgtatt gacagatcca tagtgtcat gggcagacac 420
 attttgcctc tatgtctctt aaaattttaa ttaaaaatac tcttccagt aatcctaatt 480
 tgcacgaaga tataatgtcc acatt 505

<210> 702

<211> 450

<212> DNA

<213> Homo sapiens

<400> 702

gcagcactta caatcactaa ttcccttaag gttgaaactg taatgacata aaaagggtcg 60
 atgatatttc actgatggta gatcgagcc cctgcaactg agccttgtt acatgaagtc 120
 cgctgggaaa tagatgtct gtctctatga caatatatt taactgactt tctagatgcc 180
 ttaatatgtg catgataagc tagttttatt ggtttagtat tctgttgtt tacgcatgga 240
 atcactattc ctggttatct caccaacgaa ggctaggagg cggcgtcaga ggtgctgggt 300
 gacagagcca tgagccagcc attttataag cactctgatt tctaaaagt aaaaaaata 360
 tatgaaatct ctgtagcctt tagttatcag tacagattta ttaaatttcg gcccttaacc 420

cagccttttc cagtgtgtaa cccagtttga

450

<210> 703

<211> 542

<212> DNA

<213> Homo sapiens

<400> 703

tgcggaaata cctgaaatac agcaaaaata tcctggaccg gcaagatcct ccctctgtgg 60
 tggtcaccag ccaccaggcc ccaggagaaa agaagaaact gaagtgcctg gcctacgact 120
 tctaccagg gaaaattgat gtgcactgga ctggggccgg cgagggtgcag ggcctgagt 180
 tacggggaga tgttcttcac aatggaaatg gcacttacca gtcctgggtg gtggtggcag 240
 tgccccgca ggacacagcc ccctactcct gccacgtgca gcacagcagc ctggcccagc 300
 ccctcgtggt gccctgggag gccagctagg aagcaagggt tggaggcaat gtgggatctc 360
 agaccagta gctgcccttc ctgcctgatg tgggagctga accacagaaa tcacagtcaa 420
 tggatccaca aggcctgagg agcagtgtgg ggggacagac aggaggtgga ttggagacc 480
 gaagactggg atgcctgtct tgagtagact tggacccaaa aaatcatctc acctgagcc 540
 ca 542

<210> 704

<211> 503

<212> DNA

<213> Homo sapiens

<400> 704

gaattctcga actgcatgta ttgtgccaat ctgtcctgag tgttcattgt ttgtacaaa 60
 tttaatgaac gcgtgttctg taatcaaact gcaaatattg tcataaccaa catccaaaat 120
 gacggctgct atatataagt gtttgcata tggaatttaa tcgtaagcca tgatcataat 180
 gttaactaaa taactttatg tggcactgcc tagtaaggga actatggaaa ggtttggatt 240
 tctccaaatc tgggagaatt ttcaaataa gaaaataacc ttatatgat atactatgac 300
 taggtgtgt attcttttc agggattttt ctaccttcag ggttgatgt agtttagtta 360
 ctattaccat agccaacctg tagttttaca tatacathtt ctgtggagc aatagagttc 420
 tccattttac agaagcattt taaatgtagt ttgaatattt tccacaagat gctgcaatgt 480
 gagttatcac ttcatttatt tta 503

<210> 705

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (148)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (151)..(154)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (156)..(156)

<223> n is a, c, g, or t

<400> 705

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agtcaaatgc caaacactag ctctgtatta atcccatca ttactggtaa agcctcatt  60
gaatgtgtga attcaataga ggctatgtaa aattttact aatgcatta tttgaaaaa  120
ataaatttaa aaatacatc aaaattanna nnnnanacaa gettaattgt taatattccc  180
taaacacaat tttatgaagg gagaagacat tggttgttg acaataacag tacatcttt  240
caagttctca gctatttct ctacctctcc ctatcttaca ttgagtatg gtaacttatg  300
tcattctatg tgaatgtaag cttataaagc acaaagcata catttctga ctggctaga  360
gaactgatgt ttcaatttac ccctctgcta aataaa 396

```

<210> 706

<211> 49

<212> DNA

<213> Homo sapiens

<400> 706

```

gtctttgcta taccactgac tgtattgaaa accaaagtat taagagggg 49

```

<210> 707

<211> 262

<212> DNA

<213> Homo sapiens

<400> 707

```

ggatcgcatg catccagaga tggacctcc tccagccgcc aaatccgcac caaggctatg  60
gatgtgcacg atggcaaggt ggtgtccacc cagagcagg tccttcgcac caagaactga  120
ggctgcccag ccccgctcag gcctaggagg cccccctgt ggacacagat cccactggaa  180
gatccccctc cctgcccag cacttcacag ctggacctg cttaccctc acccctcct  240
ggcaatcaat acagcttcat ta 262

```

<210> 708

<211> 396

<212> DNA

<213> Homo sapiens

<400> 708

```

ggcaaaactgc ttaatttgt ggattttgta gatggttca aatgactgaa ctgcattcag  60
atttacgagt gaaaggaaaa attgcattag ttggttgcag gaactttgaa gggcagatat  120
tactgcacaa actgccatct cgcttcattt tttaactat gcatttgagt acagactaat  180
ttttaaata tgcataactg gaagattaaa cagatgtggc ccaaactgtt ctggatcagg  240
aaagtcatac tgttacttt caagtggct gtcceccccc cgceccccc ccaccccat  300
atgtacagat gataataggg tgtggaatgt cgtcagtggc aaacatttca cagattattt  360
tggttctgtc ttcaacattt ttgacctgt gctaata 396

```

<210> 709

<211> 455

<212> DNA

<213> Homo sapiens

<400> 709

```

gtcggagggtg acgctactga gaactttgag gatgtcgggc actctacaga tgccaggga  60
atgtccaaaa cattcatcat tggggagctc catccagatg acagacaaa gttaaacaag  120
cctccggaaa ctcttatcac tactattgat tctagtcca gttggtggac caactgggtg  180
atccctgcca tctctgcagt ggccgtgcc ttgatgtatc gcctatacat ggcagaggac  240
tgaacacctc ctgagaagtc agcgcaggcc gagcctgctt tggacacggg agaaaagaag  300

```

ccattgctaa ctacttcaac tgacagaaac cttcacttga aaacaatgat ttaatatat 360
 ctctttcttt ttcttccgac attagaaaca aaacaaaaag aactgtcctt tctgcgctca 420
 aatttttcca gtgtgccttt ttattcatct acttt 455

<210> 710

<211> 501

<212> DNA

<213> Homo sapiens

<400> 710

gaacagaacc tgagtcgtcg gactttcaaa agcctcttca gagcaagcga tgagagtgtt 60
 ttatccatgc ataaagtctg tgaagcggga ggactttttg taaatagccc agaagagccc 120
 agcctcagca gtagtggtcac tgaggaggaa atccagtctt atgtgcagca gttcaagaag 180
 tctggtttca gaggtctctt aaactggtag cgaacatgg aaaggaactg gaagtgggct 240
 tgcaaaagct tgggacggaa gactctgatt ccggccctga tggcacggc ggagaaggac 300
 ttcgtgctcg ttctcagat gtcccagcac atggaggact ggattcccca cctgaaaagg 360
 ggacacattg aggactgtgg gcaactggaca cagatggaca agccaaccga ggtgaatcag 420
 atcctcatta agtggctgga ttctgatgcc cggaaccac cggtggtctc aaagatgtag 480
 aacgcagcgt gtgcccacgc t 501

<210> 711

<211> 379

<212> DNA

<213> Homo sapiens

<400> 711

gttttactcg cttgtatgat gtttccatt catacaccta taaatctcta acaagaggcc 60
 cttgaactg ccttgtgttc tgtgagaaac aaatatattac ttgagtggga aggactgatt 120
 gagaatgttc caatccaaat gaatgatca caacttaca tgctgctcat tgttgtgagt 180
 actatgagat tcaaatttt ctaacatag gaaagccttt tgcctccaa agatgagtac 240
 tagggatcat gtgttataaa aaagaaaggc tacgatgact gggcaagaag aaagatggga 300
 aactgaataa agcagttgat cagcatcatt ggaacatggg gacgagtgc ggcaggagga 360
 ccacgaggaa atacctca 379

<210> 712

<211> 256

<212> DNA

<213> Homo sapiens

<400> 712

aatcctgtac caaatctgac atattatgcc tgaatgactc cactgttttt ctctaagtct 60
 tgatttaggt agccttgtgt tctgagtaga gcttgtaata aatactgcag cttgagaaaa 120
 agtggaagct tctaaatggg gctgcagatt tgatatttgc attgaggaaa tattaatttt 180
 ccaatgcaca gttgccacat ttagtctgt actgtatgga aacactgatt ttgtaaagtt 240
 gcctttattt gctgtt 256

<210> 713

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (369)..(370)

<223> n is a, c, g, or t

<400> 713

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atagtaccag taggggctta taataaagga ctgtaatctt atttaggaag ttgacttata   60
gtacatgata aatgatagac aattgaggta agtttttga aattatgtga cattttacat   120
taaatttttt ttacattttt tgggcagcaa tttaaagtgt atgactatgt aaactacttc   180
tctgttagg taattttttt cacctagatt ttttcccaa ttgagaaaaa tatatactaa   240
acaaaatagc aataaaacat aatcactcta ttgaagaaa atatcttgtt ttctgccaat   300
agatttttta aaatgtagtc agcaaaatgg ggggtggggaa gcagagcatg tcctagtcca   360
atgttgacnn tttttttt tttaaagaaa agcattaaga cataaaattc ttcactttg   420
gca                                     423

```

<210> 714

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (42)..(42)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (103)..(103)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (164)..(164)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (225)..(225)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (286)..(286)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (347)..(347)

<223> n is a, c, g, or t

<400> 714

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tacatcttgc cagaagggtt cctcgcgcaa caaacagttg anaatttaag ggaagaagca   60
aaagctaaac tgtctttgac cctaagatag atagaaagct atnttattg tcttcagtg   120
tcaaggcatg actagtattt ctaattagcc taataaatc ccancacttt ctgaagtga   180
cactaatggt attgcctac taaaactgtc attgittctt tttntttaa ctggtcagtc   240
attcacaata agctatgagg gtaataaat atgtgttata acaagntaaa ccgtagttgc   300
aagaatatac catgaagatt aaagtaggct gggtttcatt tccatcnttc ccacacatct   360
cattgaattt gatgggtgac ttaattggca ccataact                               398

```

<210> 715
 <211> 480
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (207)..(208)
 <223> n is a, c, g, or t
 <400> 715

tacttagtc aaatttctgt tctctcttcc ccaaataata ttaaagtatt atttgaactt 60
 ttaagatga ggcagttccc ctgaaaaagt taatgcagct ctccatcaga atccactctt 120
 ctagggatat gaaaatctct taacacccac cctacataca cagacacaca cacacacaca 180
 cacacacaca cacacacaca cacacannnt caccctaagg atccaatgga atactgaaa 240
 gaaatcactt ccttgaaaat ttattaaaa aacaacaaaa caaacaaaaa gcctgtccac 300
 ccttgagaat ccttctctc ctgggaacgt caatgtttgt gtagatgaaa ccatctcatg 360
 ctctgtggct ccagggttct tttactatt ttatgcactt gggagaaggc ttagaataaa 420
 agatgtagca cattttgctt tccatttat tgttggcca gctatgcaa tgtgtgtgcta 480

<210> 716
 <211> 559
 <212> DNA
 <213> Homo sapiens
 <400> 716

taccctcgca gcagtgtctc tgaggactag caaagtctgg aggcagatga atggtttctg 60
 accctcacca gggctgtgga aggggtgggg tgggtcatta tagtattcag gatttacagt 120
 gcagtattca cgtgtaactt ttaagtttc agtacagtgc tttataacct ttaatgcaat 180
 gttgtattca ttgggtact attgttagt attaggatg tatgcatgtt tgtttatag 240
 taagcttggg tgggtcttc gctttgtgc taccttctt ggattttgt accagagatg 300
 tgctaaactg atgaaatata ttgagaaagt tccatctta ttctttata tgggactgat 360
 gatgtgtgtt ggggtagact gtcctgcag agtttgaag aagtcaccag caaagccggc 420
 ctaaccaaga aaagtaagg ccttcatga ccttgctggg cacagaaaac accctcgtgg 480
 agtacactaa ttgaactgg actggtctca gtgtgagcac ttggcacact ttactaaaca 540
 catatacaac ccaccgtg 559

<210> 717
 <211> 382
 <212> DNA
 <213> Homo sapiens
 <400> 717

tccagccctc cggagagtgg gcttggccct aggccctcca gctcagccag aaaaagccca 60
 gaaaccagg tgctggacca gggccctcag ggaggggacc ctgcggctag agtgggctag 120
 gccctggctt tgcccgctag atttgaacga atgtgtgtcc ctgagccca aggagagcgg 180
 caggaggggt gggaccaggc tgggaggaca gagccagcag ctgccatgcc ctctgctcc 240
 cccacccca gccctagccc tttagccttt caccctgtgc tctggaaagg ctaccaaata 300
 ctggccaagg tcaggaggag caaaaatgag ccagcaccag cgccttggtt ttgtgttagc 360
 atttctctct gaagtgttct gt 382

<210> 718
 <211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (77)..(77)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (351)..(351)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (457)..(457)

<223> n is a, c, g, or t

<400> 718

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ggatgatcgaa aactgtggcc atgtggaacc cggctctgtg ggggactgtt tctccatctt   60
gactcagaca gttcctngga aacaccgggg ctctgtttt atttctttg atgtttttct   120
tcttagtag ctggggctgc agcctccact ctctagtcac tggggaggag tattttttgt   180
tatgtttgt ttcatttct ggcagagctg gggcttttg tctgacccct ctgggtgtga   240
gtttctgac ccaaccagcc tctggttagc atcatttga catttaaacc tgtaaatagt   300
tgttacaag caaagagatt atttatttcc atccaaagct cttttgaaca ncccccccc   360
tttaaccct cgttcaggac gatgagcttg ctttcttca acctgtttgt tttcttatt   420
aagactattt attaatggtt ggaccaatgt actcacngct gttgcgtcga gcagtcctta   480
gtgaaa                                           486

```

<210> 719

<211> 181

<212> DNA

<213> Homo sapiens

<400> 719

```

tgagggttc agagagcctt tttctaggcc tacatgcttt gtgaacaagt ccctgtaatt   60
gttgtttgta tgtataatc aaagcaccaa aataagaaa gatgtagatt tatttcatca   120
tattatacag accgaactgt tgtataaatt tatttactgc tagtcttaag aactgcttc   180
t                                           181

```

<210> 720

<211> 464

<212> DNA

<213> Homo sapiens

<400> 720

```

tccctgtaat tgtgtttgt atgtataatt caaagcacca aaataagaaa agatgtagat   60
ttatttcac atattataca gaccgaactg ttgtataaat ttatttactg ctagtcttaa   120
gaactgcttt ctttcgttg ttgtttcaa tttttcctt ctctctcaat ttttggtga   180
ataaactaga ttacattcag ttggcctaag gtggttgcgc tcggagggtt tctgtttct   240
ttccatttt gttttggat gatatttatt aaatagcttc taagagtcgc gcggcatctg   300
tctgtccct attcctgcag cctgtgctga gggtagcagt gtatgagcta ccagcgtgca   360
tgtcagcgc cctggccga caggccacgt cctgcaatcg gcccggtgc ctctcgccc   420
tgtcgtgttc tgtgttagtg atcactgcct ttaatacagt ctgt                                           464

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<210> 721
 <211> 426
 <212> DNA
 <213> Homo sapiens
 <400> 721

ttcgactgc attttgcag gagcagtatc atgaagccta aacgcgatgg atatatgttt 60
 ttgaaggcag aaagcaaaat tatgtttgcc actttgcaaa ggagctcact gtggtgtctg 120
 tgtccaacc actgaatctg gaccccatct gtgaataagc cattctgact catatcccct 180
 atttaacagg gtctctagt ctgtgaaaaa aaaaaaatgc tgaacattgc atataactta 240
 tattgtaaga aatactgtac aatgacttta ttgcatctgg gtagctgtaa ggcatgaagg 300
 atccaagaa gttaaggaa tatgggagaa atagtgtgga aattaagaag aaactaggtc 360
 tgatattcaa atggacaaac tgccagtttt gtttccttc actggccaca gttgtttgat 420
 gcatta 426

<210> 722
 <211> 445
 <212> DNA
 <213> Homo sapiens
 <400> 722

agccggagcc ggatgcagta ggactggact cgggccatat ccgtggtgcc gtcaacatgc 60
 cttcatgga cttctgact gaggatggct tcgagaaggg cccagaagag ctccgtgctc 120
 tgttcagac caagaagggt gatctctcgc agcctctcat tgccacgtgc cgcaaggag 180
 tcaccgctg ccacgtggcc ttggtgcct acctctcgg caagcctgat gtggccgtgt 240
 acgatggctc ctggtcgag tggtttcgcc gggccccccc agagagccgt gtgtcccagg 300
 gaaagtctga gaaggcctga gccgtgacct cttctgctta ctgtaactgc ggccggttta 360
 gtgaccccat gacttacage cggttcttac ctcttaggtg aaggagatga catgttttt 420
 agaattgctg tgcaaggctc accct 445

<210> 723
 <211> 501
 <212> DNA
 <213> Homo sapiens
 <400> 723

gcagggctag ttattccgat ttctgcaca attatttagc ttttgtaag ttcaacatgt 60
 aaattttaaa gacataaata tagagagact tatgtgtttg aatataaatg atatatatgg 120
 attagcatgt acctgtatat tattaacat gcaatgaact gactggtaag tgactctaa 180
 ttgtatggct agcaatgtaa ttattcaga ctgtatttt gtacagagca gtgactcta 240
 acctatgcct ctgtgtcctc ttaatgcct aaagctgtgc ctagaaattt catctgtctt 300
 aaaagtaaaa tatacttcat gctgtttatg ctattagttt ctgtactgct attctatatt 360
 tattattttt aaatatatga catgtttact acttaacat gaattcatgg tatcctgggt 420
 attttttta agtcactctgg gggaaaacct gttatcact ccagtgattt tgagtttgca 480
 gtttcacaat cagttctca t 501

<210> 724
 <211> 477
 <212> DNA
 <213> Homo sapiens
 <400> 724

aaggagctta ttctggctc catcgctaac acgttgactg cttattatgg gaaagttttc 60
 tctgaagcca gggagaagca ttgattgatg tgggcaaac caagctccag ccaggtcgca 120

gtcccaaatg ccgacatcac tgactccagg gaccagggac atggagaaag ctgtttatga 180
 tatctttaac caggccctct tactagagct ggtgtttgtg actggccaac aagatgtggc 240
 tatgccaggg gacatctgag tatgtgcca gtcactttt ttcacagggt gaaggagag 300
 aaaagatttt gagttaaggt cattggctgc tctactctgt cccctacctg gtcacctagt 360
 gatagcccca gtggagatac gtccataca aggtcttccc agaggctgga taccacagta 420
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<210> 725

<211> 444

<212> DNA

<213> Homo sapiens

<400> 725

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 tattgggacc agaaaccaag taatgtataa tgtggctttt gttgagtaa ataagatgct 180
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 tgtatccacg taacacaggt agttacaaa acatgttatt gtactgtgta aagatgcata 360
 gtcactcat ttggttggtt ttgtacctg taccttttt agccttggtt ttgttgaac 420
 tagaacctc agcacatact gtgt 444

<210> 726

<211> 475

<212> DNA

<213> Homo sapiens

<400> 726

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 tcatctgcc actaccctt cctgaagcca cagcaggggt tcaggtcca atcagaactg 180
 ttggcaaggt gacatttcca tgcataaatg cgatccacag aagtcctgg tggatttgt 240
 aacttttgc aaggcatttt tttatatata tttttgtgca cattttttt tacgtttctt 300
 tagaaaacaa atgtatttca aaatatattt atagtcgaac aattcatata ttgaagtgg 360
 agccatatga atgtcagtag tttacttct tctattatct caaactactg gcaatttga 420
 aagaaatata tatgatataa aaatgtgatt gcagctttc aatgttagcc acagt 475

<210> 727

<211> 317

<212> DNA

<213> Homo sapiens

<400> 727

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 gggctctgat ttgtgggaac agaccttctt gtaaataacc actattttag ttgtggcagg 180
 aggatgataa agcacgcggc cctcccaaa ggagcccttg agctagggag gtggtgcagt 240
 cagcctcgct ctcaactgta cccggggaat gaccaccag agggatgagc tagcctgtag 300
 aggggaactg ggggtcca 317

<210> 728

<211> 496

<212> DNA

<213> Homo sapiens

<400> 728

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cccgggtgtc ttggaggacc cagtcctttg tgccttggca aaaaagcaca agcgaacccc   120
agccctgatt gccctgcgt accagctgca gcgtgggggt gtggtcctgg ccaagagcta   180
caatgagcag cgcacagac agaacgtgca ggtgtttgaa ttccagtga cttcagagga   240
gatgaaagcc atagatggcc taaacagaaa tgtgcgatat ttgacccttg atattttgc   300
tggccccctt aattatccat ttctgatga atattaacat ggagggcatt gcatgaggtc   360
tgccagaagg ccctgcgtgt ggtgggtgac acagaggatg gctctatgct ggtgactgga   420
cacatgcctt ctgtttaat ctctcctgct tggcgacttc agtaagctac agctaagccc   480
atcgccgga aaagaa                                     496
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<210> 729

<211> 425

<212> DNA

<213> Homo sapiens

<400> 729

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tgattggatt ggtttccaaa acaaatgcta ttattctct aaagaagaag gagattggaa   180
ttcaagtaaa tacaactgtt ccactcaaca tgccgacct actataattg acaacataga   240
agaaacgaat ttcttaggc ggtataatg cagtctgat cactggattg gactgaagat   300
ggcaaaaaat cgaacaggac aatgggtaga tggagctaca ttaccaaat cgttggcat   360
gagagggagt gaaggatgtg cctacctcag cgatgatgtg gcagcaacag ctatagtta   420
caccg                                     425
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<210> 730

<211> 400

<212> DNA

<213> Homo sapiens

<400> 730

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gaacacgcag agagtttccc tagatatact cctgcctcca ggtgctggga cacaccttg   60
caaatgctg tgggaagcag gagctgggga gctgtgttaa gtcaaagtag aaacctcca   120
gtgtttggtg ttgttagag aataggacat agggtaaaga ggccaagctg cctgtagtta   180
gtagagaaga atggatgtgg ttcttctgt gtatttatt gtatcataa cacttgaac   240
aacaagacc ataagcatca tttagcagtt gtagccattt tctagttaac tcatgtaaac   300
aagtaagagt aacataacag tattaccctt tcaactgtct cacaggacat gtacctaatt   360
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<210> 731

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (78)..(78)

<223> n is a, c, g, or t

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<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (242)..(242)

<223> n is a, c, g, or t

<400> 731

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cctggctcta agcctaaaaag tgggcttgat tctgcagtaa atcttttaca actgcctcga 180

cacacataaa ccttttttaa aatagacact ccccggaagtc tttgttcgc atggtcacac 240

anctgatgct tagatgttcc agtaatctaa tatggccaca gtagtcttga tgaccaaagt 300

ccttttttc catctttaga aaactacatg ggaacaaaca gatcgaacag ttttgaagct 360

actgtgtgtg tgaatgaaca ctcttgcttt attccagaat gctgtacatc tattttggat 420

tgtatattgt gtttgtgtat ttacgcttg attcatagt 459

<210> 732

<211> 528

<212> DNA

<213> Homo sapiens

<400> 732

aacactaggg ccttggaat tctgtactg tgtctcatgg atttggcact agccaaagcg 60

aggcaccctt actggcttac ctctcatgg cagcctactc tcttgagga tgagtagcca 120

gggtaagggg taaaggatag taagcataga aaccattaga aagtgggctt aatggagttc 180

ttgtggctc agctcaatgc agttagctga agaattgaaa gttttgttt ggagacgttt 240

ataacagaaa tggaagcaga gtttcatta atccttttac cttttttt tcttggttaa 300

tcccctaaaa taacagtatg tgggatattg aatgttaaag ggatatttt tctattattt 360

ttataattgt acaaaattaa gcaaatgtta aaagtttat atgctttatt aatgttttca 420

aaaggattta tacatgtgat acattttta agcttcagtt gcttgccttc tggctacttc 480

tgttatgggc ttttggggag ccagaagcca atctacaatc tctttttg 528

<210> 733

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (233)..(233)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (252)..(252)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (259)..(259)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (347)..(347)

<223> n is a, c, g, or t

<400> 733

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aaatggcact cattgtggcc ttgttgaatt atgttgtgta tgtttaaca tctctgatgc 180
tgtgttacta aaattacaag gacctgcttt ttaaaaggcc agaacaattg tcntgaaatt 240
agtaacaatg cntgcatent agattggagt gctgcacaaa caaacataag agcaaagcaa 300
aactgtatca cataggggtt ttgttcactc acaacctgaa ttcaccnaca gctggaatag 360
ctgtggaaaa caaaataaaa caacaaaatt aataatgaaa tggagggggaa ttctagaatt 420
atatgctaaa tgcataatgt atgatttgcg gtattactg atgataaac taatggcaga 480
aaaagaagt gagcaatttc tatgtaatgt acagatacta gcattgcaca tatagtctgc 540
tttctgtcc tccagaattt gagtctgtt 570

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<210> 734

<211> 246

<212> DNA

<213> Homo sapiens

<400> 734

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aaggcctggc tcgcatggag ttgtttctt ttgtgtgtgc cattttgcag cattttaatt 120
tgaagcctct cgttgacca aaggafatcg acctcagccc tatacatatt gggtttggt 180
gtatcccacc acgttacaaa ctctgtgtca tccccgctc atgagtgtgt ggaggacacc 240
ctgaac 246

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<210> 735

<211> 358

<212> DNA

<213> Homo sapiens

<400> 735

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ccgggggcct atggcagtg tgctgtgtg gtttcctagg gatgctctaa cgaattacca 60
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ctgggatgga ggtgttgga gggctgtggt cccittgaag gctctgggga agaatecttc 180
cttggtcttt ttagcttgt ggcggcagtg ggcagtcctg ggcattcccc agcttattgc 240
tgcacactc cagtctctgt ctctctgtt ctctctctt ttaacaacag tcattggatt 300
tagggcccac cctaactctg tgtgatctta tcttgatcct tattaattaa acctgcaa 358

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<210> 736

<211> 454

<212> DNA

<213> Homo sapiens

<400> 736

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gtagctctga tgagaatggg gtcccagatg gctcaggctg tgacctcctt gggcaccacc 60
ctccccaggc tgggtgtgga ggagtgggg cccctgctt tcaggaggct ttagttag 120
aagggaagta ggcattacca tagacactc ctagaggaca gtgctatgta aaaatgtgtg 180
tctataaatg ttatcatgc atgtattcta gagtcattc attattcaa caaacatttg 240

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gtgagcacct atttcggttc gagaaacttc atttatctcc tataattggc aaacttaaaa 300
 atgcagcaga aacttacatt ccaaccttag agactcatag tgagcacaag gaaagttttg 360
 ccctgagatt catggttatg gctgggtacc accaaataga agaattggctt agggggagtgc 420
 cccttcactg agatgtgttt ctttgttgaa cttt 454

<210> 737

<211> 226

<212> DNA

<213> Homo sapiens

<400> 737

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 ctgagccagt tcagtacctg gaggaggagc agggggcgtgg agggcggtgga gggcggtgga 120
 gcgtgggagg cgggagtgga gtggaagaag agggagagat ggagcaaagt gaggggccgag 180
 tgagagcgtg ctccagcctg gctccacag gcagctttaa ccatta 226

<210> 738

<211> 560

<212> DNA

<213> Homo sapiens

<400> 738

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 ccatcacatc tggaggaatc acttaccagg atcagccctg gcattgccat tgctttgtgt 120
 gtgttacctg ctctaagaag ctggctgggc agcgtttcac cgctgtggag gaccagtatt 180
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 cagtgtgcca cgggaaacgc ttgccttcca ccctgttccc cagcgccaac ctccggggca 360
 ggcatccggg tggagagagg acttgccct cgtgggtggt ggttctttat agaaaaaatc 420
 gaagcttagc agctcctcgt ggcccgggtt tggtaaaggc tccagtgtgg tggcctatga 480
 aggacaatcc tggcacgact actgttcca ctgcaaaaaa tgcctcgtga atctggccaa 540
 caagcgtttt gtttccacc 560

<210> 739

<211> 440

<212> DNA

<213> Homo sapiens

<400> 739

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 cagtcgacgt cagcgtggtc tgtcatcctg ctagtittgt atgtttctg acagtagcct 180
 ccaagaagcc gttgtgcgaa gacagagtcc tgcagagtcc ttccagccta ggcctgcagc 240
 gccattttat ttatatttt taataaaaag taaaaacaaa aaaacagacc cacattggaa 300
 cagtgaatca gtccataga gagggcccgt ggaccatcgc tgtcatgagt gatgccctgg 360
 cctttctgaa accagccaac ctaattacct gtattgtgga aatgcgcatg agtccccaac 420
 ccttgtttc tatacattc 440

<210> 740

<211> 473

<212> DNA

<213> Homo sapiens

<400> 740

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 cagagttagt tcagctagaa gacgaaatta caactactcg acaagtttg tcagcgaaag 180
 aaaggcatct agttgagata aaacaaaaac tcggcatgaa cctgatgaat gaattaaaac 240
 agaacttcag caaaagctgg catgacatgc agactaccac tgctacaag aaaacacatg 300
 aaaccctgag tcacgcaggg caaaaggcaa ctgcagcttt cagcaacgtt ggaacggcca 360
 tcagcaagaa gttcggagac atgagacgaa agtaggcggt acgaacccta atggaggcag 420
 ttttgaggag gtctcagct ccacggccca tgccagtgc cagagcttg cag 473

<210> 741

<211> 255

<212> DNA

<213> Homo sapiens

<400> 741

gttctgaaa tctgagtgt tgctgccag tcgcatgag aacttcctac cttctgctgt 60
 ttactctctg ctacttttg tctgagatgg cctcaggtgg taactttctc acaggccttg 120
 gccacagatc tgatcattac aattgcgtca gcagtggagg gcaatgtctc tattctgcct 180
 gcccgatctt taccaaaatt caaggcacct gttacagagg gaaggccaag tgctgcaagt 240
 gagctgggag tgacc 255

<210> 742

<211> 566

<212> DNA

<213> Homo sapiens

<400> 742

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 agggcttctc caaatacatg cacagtcata caagtcattg tcacagtaaa gactacactc 120
 agccactgtc acaggcatac tcctgcaca cacatgcata ctacagact ggaatagtgg 180
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 gcacgttgcc caaggttgca cagcaagaaa agggagaagt tgagattcaa acccaggctg 480
 tctagctccg ggggtacagc ctttgactc ctactgagt ttgtgtaacc agccctgcac 540
 gaccctgaa tctgctgaga ggcacc 566

<210> 743

<211> 555

<212> DNA

<213> Homo sapiens

<400> 743

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 ggcgcactcc ggcggcggca gcagctccgg cggcgggatac ggcggcggca gctccagcgg 120
 aggccacaag tcctctctt ccgggtccgt ggcgcagctc tcactaagg gaccaagata 180
 ctaacaaaac cagagtaatc aagacaatta ttgaagaggt ggcgcccgcac ggtagagttc 240
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 gttttgtgtt ttctgtattt cttcttttca ctttaccaga aagtgttctt taatggaaag 480
 aaaaacaact ttctgtctc atttactaat gaatttcaat aaactttctt actgatgcaa 540

acgtctgaga ttact

555

<210> 744

<211> 436

<212> DNA

<213> Homo sapiens

<400> 744

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 ctggtgaaga acacatatgt cctgtgaccg ccctgtcgcc aagaggactg gggaaggag 180
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 gtttgcttg gaaatcctc aggaggctcc tctcgcatg gcctgcagtc tggcagcagc 360
 cccgagttgt ttcctcgctg atcgatttct ttctccagg tagagtttc ttgcttatg 420
 ttgaattcca ttgcct 436

<210> 745

<211> 505

<212> DNA

<213> Homo sapiens

<400> 745

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 ctttctcgc cttttctgt catctcaacc tctcacagag gtgtcttctc cccctaacct 180
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 cagcactgca ctgttagctg agagtgcggg caagacataa actgtccaga gtttgaaggt 480
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<210> 746

<211> 471

<212> DNA

<213> Homo sapiens

<400> 746

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 cctccccag ctaggaaaca gaacgtgggc agagacgtga ccaagccatc cccagccca 240
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 ggcaggactg tggagaccg tctgaacgg gcgactgtgt cttgactacc ttcaaaacc 420
 agcactgtgt gggaatgtcc gccaggcaga gctcggagcc tcattgagac a 471

<210> 747

<211> 256

<212> DNA

<213> Homo sapiens

<400> 747

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ctccccatct ccagggcgtg ggaggggggc cctcaccgctg tcacgcctcg ctccctcctg 180
gccctctggt ccagccccctc acgcctcctc tcagtctact caattgtgac tgcctcctct 240
gatgtatttt ttttct 256

<210> 748

<211> 528

<212> DNA

<213> Homo sapiens

<400> 748

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tccatataac caaaaagcat ggtttattca ttgaaacacg gttagctga actcgtgcct 180
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ctgtgaagtc actgaacaga acgtcgctga tggagaaagg gctcccgag aaggaacggc 300
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cggctgggta cctgcaccc ggcactgtag gagtcacgtg cagccttct caggggactg 480
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<210> 749

<211> 518

<212> DNA

<213> Homo sapiens

<400> 749

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aaggccagc aggagcaagc cgcccaccag gccagcctgc ggaaggagca gctgcgagtg 180
gacgccctgg aaaggacgtt ggagcagaag aataaagaaa tagaagaact caccaagatt 240
tgtgacgaac tgattgcaa aatggggaaa agctaactct gaaccgaatg ttttgactt 300
aactgttgcg tgcaatatga ccgtcggcac actgctgttc ctccagtcc atggacaggt 360
tctgttttca cttttcgta tgcactactg tatttccttt cttaataaaa ttgatttgat 420
tgtatgcagt actaaggaga ctatcagaat ttctgtctat tggtttgcac ttcttagta 480
taattcatag caagttgacc tcagagttcc tgtatcag 518

<210> 750

<211> 545

<212> DNA

<213> Homo sapiens

<400> 750

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attgcagact aaaaccactt ctaccatctc ctctagtatt ttccatgtat caggacagag 180
atgtcttatg tagggaaggg gcaggtatga agtgaggttag attatctata cctctcactc 240
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cagggatgac ttttagtaaa tcatggggat ttattgatt tattatcact tataggattt 420
tgtgggggtg gagtggggag caggaattgc actcagacat gacatttcaa ttcatctctg 480
caaatgaaaa gggttcttcc tcttggggga aatctgtgtg tcagttctgt cagctgcaag 540

ttctt

545

<210> 751

<211> 421

<212> DNA

<213> Homo sapiens

<400> 751

gagtattaca ttggccttgg gggacagaaa ggaggaagtt ctgacttttc agggctacct 60
 tatttctact aaggaccag agcaggcctg tccatgccat tcttcgcac agatgaaact 120
 gagctgggac tggaaaggac agcccttgac ctgggttctg ggtataattt gcacttttga 180
 gactggtagc taacctatct atgagtgcc aatgtgtcatt tagtaaaact taaatagaaa 240
 caaggtcctt caaatgttcc ttggccaaa agctgaaggg agttactgag aaaatagtta 300
 acaattactg tcaggtgtca tactgttca aaaggtaagc acatttagaa tttgttctt 360
 gacagttaac tgactaatct tactccaca aaatatgtga atttgctgct tctgagaggc 420
 a 421

<210> 752

<211> 375

<212> DNA

<213> Homo sapiens

<400> 752

aagctatgtg tatcttctgt gtaaagcagt ggcttactg gaaaaatggt gtggctagca 60
 ttccctttg agtcatgatg acagatgggt tgaaaacat ctaagtttgc tttgacct 120
 cacctcccag tagcaatttg ctttcataat ccatttagca atccaggcct ctgttgaaaa 180
 gataatatga gggagaaggg aacacatttc ctctgaact tacttcccta agtcacttcc 240
 cttatgtatc atctaataca atgatggtg agtgaaaata cagaaggggt gtttgagtat 300
 tcagatttca taaaacactt ccttgaata tagctgcatt aacttggaag gaagcctgtt 360
 gggccagaag acaga 375

<210> 753

<211> 532

<212> DNA

<213> Homo sapiens

<400> 753

caggattggc caagtccttc ggggtgtcca acttcaacca caggctgctg gagatgatcc 60
 tcaacaagcc agggctcaag tacaagcctg tctgcaacca ggtggaatgt catccttact 120
 tcaaccagag aaaactgctg gatttctgca agtcaaaaaga cattgttctg gttgectata 180
 gtgctctggg atcccatcga gaagaacctt ggggtggacc gaactccccg gtgctcttgg 240
 aggacccagt cctttgtgcc ttggcaaaaa agcacaagcg aacccagcc ctgattgccc 300
 tgcgtacca gctgcagcgt ggggttggg tctggccaa gagctacaat gagcagcgca 360
 tcagacagaa cgtgcagggtg ttgaattcc agttgacttc agaggagatg aaagccatag 420
 atggcctaaa cagaaatgtg cgatattga ccttgatat tttgctggc cccctaatt 480
 atccatttct tgatgaatat taacatagag ggtgtgtcac gacatctagc ag 532

<210> 754

<211> 159

<212> DNA

<213> Homo sapiens

<400> 754

tcactgagca ccacattctc tagcttcttg ttgaggctgg aactgtttct taaaaatccc 60

ttaattttcc catctcaaaa ttatatctgt acctgggtca tccagctcct tcttgggtgt 120
ggggaaatga gttttctttg atagtttctg cctcactca 159

<210> 755

<211> 378

<212> DNA

<213> Homo sapiens

<400> 755

acatctccat tacaaatgcc acagtgaag acagtggaac ctactactgt acgggcaaag 60
tgtggcagct ggactatgag tctgagcccc tcaacattac tgtaataaaa gtcgcgctg 120
agaagtactg gctacaattt ttatcccat tgttgggtgt gattctgttt gctgtggaca 180
caggattatt tatctcaact cagcagcagg tcacatttct cttgaagatt aagagaacca 240
ggaaaggctt cagactctg aaccacatc ctaagccaaa ccccaaaaac aactgatata 300
attactcaag aaatatttgc aacattagtt ttttccagc atcagcaatt gctactcaat 360
tgtcaaacac agcttgca 378

<210> 756

<211> 436

<212> DNA

<213> Homo sapiens

<400> 756

agtgagaaga tctgcaccgt ccagttgggt ggtaacagct ggacccttgg ctaccccgag 60
accaggagg cgctctgccc gcaggtgaca tggctctggg accagttgcc cagcagagct 120
cttggccccg ctgctgcgcc cacactctcg ccagagtccc cagccggctc gccagccatg 180
atgctgcagc cgggcccgcga gctctacgac gtgatggacg cgggtcccagc gcggcgctgg 240
aaggagttcg tgcgcacgct ggggctgcgc gaggcagaga tcgaagccgt ggaggtggag 300
atcgggcgcgt tccgagacca gcagtacgag atgctcaagc gctggcgcca gcagcagccc 360
gcggggcctcg gagccgttta cgcggccctg gagcgcattg ggctggacgg ctgcgtggaa 420
gacttgcgca gccgcc 436

<210> 757

<211> 441

<212> DNA

<213> Homo sapiens

<400> 757

gagagctcct gtttactaag caagcttttg tgtttattat cctcattttt actgaacatt 60
gttagttttg gggtaatgga aaccacattt ttcattgtaa tgactttggg ggcttttgtt 120
agtaagggtg ggtggggtga tgggttgacg acggaggtca ggtcttctc ttctctgaga 180
ctggaatctgt tcaaacagca aacgcccaca gatggcccag aggtgggtgt agtcagggtg 240
tgtgggtgtt tttaggttgc ttagtggtg ttctttcac ccagggttgg tgggtcccagc 300
cagtttgggtg ctgacgggtga gaggaatta gaatctgttt gcaaattgtc caaccaccc 360
cctcaacatg aggggcttcc attttctgtg ttttgaagg gaactgtttc cttcatgccg 420
ccatgttct gatattagtt c 441

<210> 758

<211> 437

<212> DNA

<213> Homo sapiens

<400> 758

ttctacctga acactgttac tcttgaagtc acaacaaaat aatgatgagc tttcacatc 60

acccttatgg ttcaatccc tagctcaaag ctctctggaa tcttttattt ttgtaaact 120
 ttttttctt ttgttaaaat aaataaaaca ttcaatgttt ttctctttt ctctcttatt 180
 actcttttcc ttggcattt tcaatttgaa atgctttcct ttggttggtg gttttattct 240
 cccctatccc ctcccccttt ctattattc agaataaaa cctgcaaagc tctgctctgt 300
 ttggttttg aaagttaag cttttctgct tctgtgagag cacaggcttc tgccctttt 360
 gattccaact gaactttgt gttctctaata gatactaaca cgggttaggt ttacagctt 420
 cctaatttgt actggta 437

<210> 759

<211> 402

<212> DNA

<213> Homo sapiens

<400> 759

cttaactctt ttgacatctg ctattgtgac acatcccatg gctggcaatg tggcgcacac 60
 tccgaaactt ttaactactg ttttgaagc ctccaagggt ggcattgcag ggtccttagg 120
 caatgttttg ttgacctta tgcagagagg tgctccaagt gctgtgattg agcacctgac 180
 tagaggaact gtaatgcttc agaagtgtga gcttatacaa aggaaacagg tctgctggc 240
 ttaatttaaa cagttattgc atgaagtagc gtggaggccc tggactgctg ctggttcttt 300
 aggatggact gttctggtat ctggtattgg ttagagact gtaataagg gacatcacia 360
 ggtgatggga ttcaattgaa gcactctatt tctgttttaa tg 402

<210> 760

<211> 501

<212> DNA

<213> Homo sapiens

<400> 760

cagaaaaggc ataccacgag cagctgtcgg tggcagagat caccaatgcc tgctttgagc 60
 ctgccaacca gatggttaaag tgtgatcccc ggcacggcaa gtacatggcc tgctgcctgc 120
 tgtaccgtgg agatgtggtg cccaaggatg tcaacgctgc cattgccgcc atcaagacca 180
 agcgagcat tcaatttggg gactggtgcc ccacaggctt caaggttggg atcaactacc 240
 agcctccac tggtgtgctt ggggggtgacc tggccaagggt gcagcgtgcc gtgtgcatgc 300
 tgagcaaac gaccgccatc gccgaggcct gggcccgcc ggaccacaag ttcgacctga 360
 tgtatgcaa gagggcggtt gtgcactggt atgtgggtga gggcatggag gaggggtgagt 420
 tctccgagc cgtgaggat atggctgccc tggagaagga ttatgaggag gtgggcatcg 480
 actcctatga ggacaggat g 501

<210> 761

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<400> 761

tgttacatgg cagcttaggc agactagatc ttgnttttc caatgcagca taatgagtat 60
 gatctatttc ttttcaata atctttgaga tcccaggaaa aaaaaaatgc tctgtccat 120
 tgagctataa tgtaaatgtg ttgttttaaa aaacagggtga ggcaagttag tgattattg 180
 ttctgagga agtatatctg atttttttc tcatactcca aaagctagtc cctactcttt 240

aataaaaata atgggtaact tttgtttt cactagcgaa ctccatgac atttccttc 300
 tatgtagtgt gattaatgca atacatatta tagttatcta tacacagtgt aagatttaac 360
 aaactgaaat gatccacctc atatgtgagt ccgtcacaaa gatgttactg ctctgggtgg 420
 gccagtgttc tatatcggtt a 441

<210> 762
 <211> 521
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t
 <400> 762
 ctgtgcgacg agtttcagct ggccaagaaa ggagtcaagt tattaaaaag catcacaatg 60
 tagatctcca ggctggtttt tngtttttng ttgtaagac tggggaaagg gggactattt 120
 attctgcctt aatcaatgg caaataagtc aagatgacat tttgtgaatg tagactatgg 180
 atacactcct aatagattga tgtatcata aaaggggggc aagtagatgt tttctgtta 240
 tghtaagcaat aatttttcgg tgtcttattg agtatggcta gcgattattt attacatgct 300
 agatgggttc ttgcatgtg ggtccatat aggtgcagaa atttcctcag ccactggagg 360
 gatttcgacc atatttgca ttggatgag ctgttattag attgaaatct acacatcatt 420
 tcattaaaaa ttgtgcctta gaaaacgcaa agctgttgca catggcgata aattatggat 480
 gcagtacatt gaagagagat gaagtcactt ccaagtttc a 521

<210> 763
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (64)..(65)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (115)..(115)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (422)..(422)
 <223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (432)..(432)

<223> n is a, c, g, or t

<400> 763

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gggggctcag tgagcactac tcacagatcc acacctgacc ctgttgggtc gagtcaggct   60
gggnnttggt ctgcactgta gcacctgtgt tctttgagtt cacatcatga atgtnggtga   120
nttccagat accatctcag gcttaaccta gcacatccta tttctttct tctatgatat   180
ccaaattgga ctgacctcac ttcaaagttg ctgtccatt ttgtaccct atcttatctc   240
ggggaaattg cagactgatg gccagaccaa ctctgttgaa attcttgcac agagcaaacc   300
tgtgtcatt ttttaagtggc atgggagagg cccaagcct agtaaagcct agtctgtgtc   360
ttcacagtgc tggtagaatg tgtttgtgtg tataaatata tgatatagat ttatatatgt   420
tnctaagccc anatattgaa ggccaacata actggtggac ag                       462

```

<210> 764

<211> 495

<212> DNA

<213> Homo sapiens

<400> 764

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gtgaaccagg agatttagtg cttttatatt catttccttg catttaagaa aatatgaaag   60
cttaaggaaat tatgtgagct taaaactagt caagcagttt agaaccaaaag gcctatatta   120
ataaccgcaa ctatgctgaa aagtacaaag tagtacagta tattgttatg tacatatcat   180
tgttaataca gtctctggcat tctgtacata tatgtattac atttctacat ttttaatact   240
cacatgggct tatgcattaa gtttaattgt gataaatttg tctgttcca gtatatgcaa   300
tacactttaa tgttttattc ttgtacataa aaatgtgcaa tatggagatg tatacagtct   360
ttactatatt aggtttataa acagttttaa gaatttcac cttttgcaa aatggtggag   420
tatgtaattg gtaaatcata aatcctgtgg tgaatggtgg tgtactttaa agctgtcacc   480
atgttatatt ttctt                                     495

```

<210> 765

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, or t

<400> 765

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gcaatcttgg aatcctcaac tgcagtaagc attcaaaaat gcaaacaac tgcttaacaa   60
ctgacaagac accagcccat angtgctct tccaacagtg ggttctagct ttgaacaaaa   120
gtgctaaaca ttcccttgaa tatattcttc ctcttttgt cctcatcact caatactggg   180
gctcttgta caggtagaac agcttgtttc tttccatct attcaagtgt gtttctaatt   240
ctaaaatgct gatcttctct ggagtctatg gtaggcaatt atggctactg gaatagtgtg   300
tcttgtttta aaatattatt ggtgcatgta caacagcatc caacatatct gcttgttcc   360
tagatatata gctctgattt taggcctttt gtgcatacca ttacaatatg gtggggtaag   420
acattctaca gtagcctgtg ctgaactgat ctcttaaa                       458

```

<210> 766

<211> 414

<212> DNA

<213> Homo sapiens

<400> 766

```
aatttcact gttcacttt aactgacaaa gaaaaacaag tggaaactac agaaactgtg   60
gtagaacttt tacttgctgg tctggtcttg gttgtacca tctttggcca gtcacataac  120
tactcaagaa accttcccaa tagagtacaa caggatgaga ctctgaaac actttcagta  180
ttccctgcta gatattgatt gttatttcaa gtattaagtg taagctttta atggataatt  240
agtataactg tggatggcat ctgattttgt tttaattct gtggattgtg ttaagcaat  300
tcaatagtat gttcctgatt ttgagatgct aagtggattt gcacagttgt cactttatca  360
agtgtgtaca acagtcccat gaagtttata gacataccc ttgtatagct tcag      414
```

<210> 767

<211> 441

<212> DNA

<213> Homo sapiens

<400> 767

```
tttcgagggg gcaaggaggg acagaaaagt aacctcttct taagtggaat attctaataa   60
gtacaccttt gtaagtgcc a tgtttattat ctaatcattc caagttttgc attgatgtct  120
gactgccact cctttcttc aaggacagtg tttttgtag taaatcact ggttataca  180
aagctttatt tagggggtaa agttaagctg ctaaaacccc atgttggtg ctgctgttga  240
gatactgtgc ttggggagta aaaaaagaaa gttatttctt tgtctaaag aattttaaa  300
aaattagtca tgagacttat tcactttcc agggaaacata ctgattgtgc ttaaagact  360
agacagttaa gtaaaagggt gctggaacat ctattttctt acaaaactgg aaaaatgaac  420
ctggttctag aagaatgtac a                                441
```

<210> 768

<211> 529

<212> DNA

<213> Homo sapiens

<400> 768

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gcagccaagg tctgtgttca gcaattggtc tctgtgttta cgtaaaataa taagcattta   60
aaatagttta cagatatttt tgaccagttc ctttagaga ttcttcaga gaagaaacca  120
gatctgacct gtttattgtt ggcgcttgtt gaaaacgagc tttcttccc atgatagtgc  180
ttcgtttttg aagtgttgaa gctgtgctcc cctaaatcg tggcaggaga gattaaggta  240
attacaacac tcagttctat gtcttacaag cactttgtct tgtctctgca agaaaattcg  300
attccagtca ttcccataa aatacagaca tttaccaac ataatatgct ttgattgatg  360
cagcattatg ctttgggcag tattacaaaa tagctggcga gtgctttctg tatttaaata  420
ttgtaaaaag aaaataagtt ataactgtta taaagcagaa cttttgttgc atttttaaa  480
ctgttgaagt cactgtgtat gttgtttgg tcaatgttc cgcagtatt      529
```

<210> 769

<211> 474

<212> DNA

<213> Homo sapiens

<400> 769

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gaactcatgt gatttaccct ttcaacttt ttggaaaacg atttaattta ttctaattag   60
attaacccta ttaatctatg gattgggtat caaaatgaat gccagtcag atgtgcctag  120
acacgaaatt ggagctgagg actctcacga tatgcaagtt catccaacgt gaagatacca  180
taagcttttt ctctgaacca gagaaatgaa agtcagttta agaggctgat agatcttggc  240
cctgttaagg catccacttc acagttctga aggtctgagtc agccccactc cacagttagg  300
```

ccaagaatta gattttaaaa ctcatctgt ctgtcccagt taactgttaa ataaggcctc 360
 atcctccact gaagagfatg gattgaagga ttgtgaacta tgtttagtgt gattgtgaac 420
 ttggtgccta atgttccatg tctgaagttt gccccagtgac tacacgttgg agta 474

<210> 770

<211> 536

<212> DNA

<213> Homo sapiens

<400> 770

ccctcaagcc tgggctcatg gagccccctgc ccagggccct cagggtggcg gaaagtccat 60
 cccctccgcc ctccaggaag gatgctcccg tgtgcagggg tctcctgcct gtgccatcca 120
 ctggggctcg agacaatttc ccactcacct gtgaggccgg tgtggctgct tcccttgtaa 180
 atagtgttc tctgtaaga agccaaatat ttaagctcac ttctcccag agagaggaag 240
 ctctgtcag gcctccagcg ttggctggcc atggccacag ccagatggag gagcccatcc 300
 ccaggagact caggcagtgg cctggagagg cttgttctg taacgggtgcc tttcttagg 360
 gtccaggcag gaatgaagcc aataatttat tgccttccat tctgtggtat gatgtgcgtg 420
 tgcgtgagtg tgtggccctt gttattccc ctctgtcaa gaatgaagtg gattcagttc 480
 aggtactttt gaggggtgtt gtgctgaccc tgtggtgtc gctgatgtac acacat 536

<210> 771

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (225)..(225)

<223> n is a, c, g, or t

<400> 771

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 ccctgagagc tcacagtaac actgtgtgtg tcaccatata actgcacetc acccccgcac 120
 gtgtgcatga ctgcagaga atattccagc aattgtgtac ccttgggcca gtctcttga 180
 accctgaggg tggccaggat ctggagctgc atctctaagg ggccnaggct ttggggacca 240
 ttgccaaagg tggactcagg aggaaagaca cttaaagaca cttttacatg tctagtaatt 300
 cttgatgttc atcttcagca ccagtggaaa cacatgaact tcatgcagg tccagagacc 360
 atggacactc ccacagggtc cagctctcag gcacccccta cacttcagtt gagggaaaag 420
 ctcaagtgcc ttaggcccgt ggaccacagt cttggctgag atcaaaggga tgagcaacag 480
 ggactctcgc cacagtgaca atggaattgt gttgtgcctt acttcagagg tggctcttc 540
 tttcttga 549

<210> 772

<211> 443

<212> DNA

<213> Homo sapiens

<400> 772

ttctgagtt gaaacttctc ctgtggttac tggatttgag aaatcagcta ccaaagtga 60
 aaaggacaag atcaattctt ttctagtcag ttctaagact gctagagaga gataccaggc 120
 ccttagcctt gctctcagta gcgtcagccc cagttctgag cctccccaca ttacacttaa 180
 caagcagtaa aggagtgagc actttgggtc cttagactca tgtctgggga ggaagagcaa 240
 gtagaaaagt ggcattttct tgattggaaa gggggaagga tcttattgca cttgggctgt 300

tcagaatgta gaaaggacat atttgaggaa gtatctattt gagcactgat ttactctgta 360
 aaaagcaaaa tctctctgtc ctaaactaat ggaagcgatt ccccatgct catgtgtaat 420
 ggttttaacg ttactcactg gag 443

<210> 773
 <211> 475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (192)..(192)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (195)..(195)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (222)..(222)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (351)..(351)
 <223> n is a, c, g, or t
 <400> 773

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 ggacacgtat ctctgtctga cggaaaacag acctcggggc tggcgtaaac cctgctgcca 120
 ggccctctcc cactgcccc aaaccggcct agacacgaag accaaagcag cctgcacagg 180
 gcaaggcccc cngcngaate ctgcagagca aactcagggt ancttgggtc catgaccgtt 240
 tgcattcgaa acacaatata ctgcctcggt ctctcagtta gcagctgggc agcagcgcac 300
 cattcatcat ttaggcttgt gggtgttgt ttactctacc aatgttatgt ngaaactgca 360
 ttgtaaaaag agaagaaaat ggcagggttt ccagggtccac ggaaagggtt ggctgacgc 420
 tggagtgcgg tgatgaactt acgtgacaat gattgtattc ctcatagca ctta 475

<210> 774
 <211> 504
 <212> DNA
 <213> Homo sapiens
 <400> 774

gaattcacac ggtactcaga ggcactgctg gggaagtttg ttggtcttta ttagataaat 60
 ttccagagac ctgtccataa tacccaacag aacatgactg ttctttgag gaaagggtta 120
 taatgtctgt ggtgtacaag tegtgtttgg tataacttct ttctgtctgc tgetgcttcc 180
 cggcaaacat agttttccta ttccaggcag agtgcgggtat attccaggaa aactgtttc 240
 ctactcactt agcttacttc tttgtgaat gcctcactaa tggcaagttt caagatgttt 300
 tgggtgacaa tgcacacatg ctgggcaaaa gggatgatggc cagtggctgg cagctgggcc 360
 agcagaagct aggacatctg tgagttgtca ttctcatcta tccatgtcca ctggcctgcc 420
 agcatccgcc agtgccctgc cagtgtgcac ggtccacac tgtggccctt gattcccta 480
 atgtacacgc tgcagccaga atgc 504

<210> 775
 <211> 417
 <212> DNA
 <213> Homo sapiens
 <400> 775

gacgagtagt cagttattgc ttgctagcta cacaccaggg ttgatccatt ttaaaacttt 60
 tggcattttg tcctcatggg ccataaatac agaacctgt attttaatta aatttttta 120
 caaaaggagg cacatgcaca atctccatgt aacaaacct tagcagtagg atgtattata 180
 cgacagttac ttaatttcta gagttcaggc ctctgggac aaccccagac tgggccagaa 240
 tgttagttaa ggtttattg tggcgggtg gaggataacg ttcttgggt acttttttg 300
 ggttgcaat gaactcaatt gccacaagt ttaactggt gtaaatcaag ctgacttaa 360
 tgtgattgt actgtatat ccagcctata ctgctagcag ctgctcatac tgcagtc 417

<210> 776
 <211> 304
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (238)..(238)
 <223> n is a, c, g, or t
 <400> 776

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 gcatgataca gtaccaggaa caacaggtgg cctaaatata tgaaaagcag tgtaagctag 120
 tgactactaa gccagtctg tattactgta ttttgacag aatggtttg aaaactgtgc 180
 tacagggact gatgtggcaa atatatctct ttatgcagaa ggaagtctt tttttcntt 240
 tttttttt taagaagtat ggcttttat gcatcctca tcgaggcat tgaagtgca 300
 tgga 304

<210> 777
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (163)..(163)
 <223> n is a, c, g, or t
 <400> 777

gccattcccc aggctatgaa gtgacatagg cctccccac ggtgcctgtg tacggagcct 60
 gatgacttca ctgggagcct tctggaatcc tgcagagggt caaggagcag ggaattgga 120
 tgcccacctg tcaagagttc agatcaaagt tgcgctgaga gntcacaat tttggtcag 180
 ccttgacgcg ttgtccaac agctcattgg cctccttgt atgatatcgt ggtcttctca 240
 catggtgccc agtcaccaat attataatg aggtctaact acagcagtag ttttcatat 300
 atatctctaa aacattttgt tatattgaaa aaagtaatag aatcaagat gtgttgatga 360
 aataaaatgt gtatctgagt gagaaaacaa gtatggtgag gtcactttaa tgttcacag 420
 cgatctcaga tctaggcctc aggtagaatg gaagctgttc tgcattcact gattaacgtt 480
 gctaaactct tggtaggcca cgagctacca gccaatgct ctctatcaca gctatctgtc 540
 ttttagtgcc acaa 554

<210> 778

<211> 147

<212> DNA

<213> Homo sapiens

<400> 778

```
gacaggaggg tgtccacata tgtaacatc agttggatct cctatagaag ttctgctgc   60
tctcttctct tctccctgag ctggtaactg caatgccaac ttctgggcc ttctgacta  120
gtatcacact tctaataaaa tccacaa                                147
```

<210> 779

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (175)..(177)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (179)..(181)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (190)..(190)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (422)..(422)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (426)..(426)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (429)..(430)

<223> n is a, c, g, or t

<400> 779

```
gtccacatg agccatgcat gcttagcaat ccaagtgcag agctctttgc tccaggagtg   60
aggagactgg gaggtgaaat ggggaaatgg aagggtttgg aggcagagct gaaaacaggg  120
ttggaaggat ttctgaatt agaagacaaa cgtagcata cccagtaagg aaaannngnn  180
naggggccan ggggaacccg tgaggatcac tctcaaatga gattaaaaac aaggaagcag  240
agaatgtgca gagaatggga ttcagattgg gaacttgtgg ggatgagagt gaccaggttg  300
aactgggaag tggaaaaagg agtttgagtc actggcacct agaagcctgc ccacgattcc  360
taggaaggct ggcagacacc ctggaaccct ggggagctac tggcaaaact tctggattg  420
gnctnatnn ttttggtggg aaaggctgcc ctggggatca acttctctc tgttgtgggc  480
tcaggagttc ttctgcagag atggcgctat ctttctctc cctgtgatgt cctgtcctca  540
accatttga ctcttcatta                                560
```

<210> 780
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (51)..(51)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n is a, c, g, or t
 <400> 780

```
acttctcagc aaataaatct cccttaagta ggaaanctag atttcatatt ngcttncttt   60
gaattaacag caactttcca caggtaaate tgttcttgca aagatgtgag cagaatagtt  120
aaaaataata tttttatgtt tcatggttct aaatggaagc cataaatgca gtaaatacta   180
tctgttggtt aactacttta atcgctattt ttacatttt caagtttatt aggttaagaa   240
aaacagggca gccttggaag gcagctacta cagaaaactg cagttttgcg ttaaagataa  300
agtagtattt tcagctcctt gaaaaacatc tcctgctgaa actgctgtag aaattgtgaa  360
gctgcatgag tggagagtat tgaatctgtg gttatagtag ttttctcagg ttgtttatc   420
ttgatgtttg atgcactgtg ttttatagtt attaaaattg agtaataatta tttctatgca  480
gtgttatgtg tcattggcct tttgtgaatg tgcattgttt aaactgcaaa ttttaacat   540
ttgtcctct aattgttat                                     559
```

<210> 781
 <211> 507
 <212> DNA
 <213> Homo sapiens
 <400> 781

```
atattcctac atcaagttac tactgagagt aaatttattt tgagttttat cccgtaagtt   60
ctgttttgat tttttttaa aaacaaaccc ttttagtcac ttaatacaga attttaaatg  120
ttcatgttac ataccaaatt ataatatcta atggagcaat ttgtcttttg ctatattctc  180
caagattatc tcttaagacc atatgcccc tgttttaatg tttcttacct ctgttttta   240
ctcatttctg actggacaaa gttcttccaa acaattctga gaaacaaaa cacacacgca  300
gaattaacaa ttttttccc tgtgcttctt atgtaagaat cctcctgtgg cctctgcttg  360
tacagaactg ggaacaaca ctgggttagt ctcttttaag ttacaaaag ccaattgatg   420
tttctatttc ttttaaat tttaatat ttgtataaat actcacagga taccttattt   480
ccctagctat catctcctga cttaatg                                     507
```

<210> 782
 <211> 480
 <212> DNA
 <213> Homo sapiens
 <400> 782

aaaatccaag acactatgcc aatgcaaccg tgactacttt gggagattgg tagtctcttt 60
 tgatggtgat agtgatgggg tgcactatca taatcacatc aggtctgctt ttgctttta 120
 atgttaacta atgaagtcc agagatgggc cttagaatg tgtttaaga attaacaagg 180
 agtctcaaaa agaaatgaga gggatgcttc cttcccttg catctacaaa acaagagaga 240
 gactgttctg ttgtaaaact cttcaaaaa ttctgatatg gtaagggtact tgagaccctt 300
 caccagaatg tcaatctttt ttctgtgta acatggaaac ttgtgtgacc attagcattg 360
 ttatcagctt gtactggtct cataactctg gtttggaag aataattgg aaattgttgc 420
 tgtgttctgt gaaaataacc tccccaaat aattagtaac tggttgttct acttggaat 480

<210> 783

<211> 341

<212> DNA

<213> Homo sapiens

<400> 783

gttcagtaca tcattgcttt gtgcctctgc ctgcttttc tgcgttccca cctgtattc 60
 cccccgctt tgggtttcc agggcttcca gcttgatctt ttgaaagttt tattctatta 120
 aatttttct atactctctg gttttctgaa aaagcttttag aatggtttct ataccctttg 180
 tatcactgca tttttccata tcattccggg ttcgatcgcg tccagatgga aaacggaagc 240
 agaggcttct aatcgctgca ttactggtt cagtgcaac acatccatct gaaaacactc 300
 ggaagtctgg tgcttgga ggggtgccatt gtctcttgta c 341

<210> 784

<211> 490

<212> DNA

<213> Homo sapiens

<400> 784

acatgcatac ttattgtgg gccatgaacc aaatggttct tacttttct ggacttaag 60
 aaaaaaagag gtttaagttt gttgtggcca atgctgaaac ctacaagatt tcttaaaat 120
 ctctaataga ggcattactt gtttcaatt gacaaatgat gccctctgac tagtagattt 180
 ctatgatect ttttgcatt ttatgaata tcattgattt tataattggt gctatttgaa 240
 gaaaaaatg tacatttatt catagataga taagtatcag gtctgacccc agtggaagaa 300
 aaagccaaac aaactgaac cacaaaaaaa aaggctggtg ttcacaaaa ccaaactgt 360
 tcatttagat aattgaaaa agttccatag aaaaggcgtg cagtactaag ggaacaatcc 420
 atgtgattaa tgtttcatt atgttcatgt aagaagcccc ttatttttag ccataatttt 480
 gcatactgaa 490

<210> 785

<211> 398

<212> DNA

<213> Homo sapiens

<400> 785

ccttactaaa agccccctcat atatcaatta ctttatttca ttatgactac ttagggtccg 60
 ggctggggac aagttcactt aaaaaggcaa tgtattttaa caggtcacca gttaagactt 120
 ctgcttttga gatacatgca gaagccatca aacaaggggg agcttttaac tgcaacaata 180
 agctaaaagta tgtaaaatc tacattctat tcagtcttgg agtggtttgt agaaagttat 240
 cttcagccaa atctttgctg aagactggtt gtggagtgtt ggtaaatgct ttgtgttttt 300
 atgtaaaata ttttctaaac aaaaaatgtt aaaagtacat gtcctctgta gtaaaactgat 360
 atctatatat atgaatcatt caagcctaaa gtctagta 398

<210> 786

<211> 528
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (185)..(185)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(190)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (196)..(196)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (245)..(245)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (284)..(284)

<223> n is a, c, g, or t

<400> 786

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ggaagaagac aagccccact agggccaagg gcagcagagc cctgccgagt gagaggctgt   60
ggggcagcgg ctctgtctcg tgccttacca gccctgggga gggggncatt tgcttggaag   120
actggaattt aattgccatc gtctttgatt ttgtgacatt tctgcttga agtgtgaact   180
accncccnnn ccccnngctt cctgtctctt agcatgcgtg cagctctctc ctgttttggg   240
tgttnccctt ggacactcca gctcggggac tcttggcgtg tgantgtgca gattcccctg   300
tgtggtcgaa cctaagaact gtggcttga agtgatgctc catgtgacga cgactttgct   360
ttcttctctc ttatgtagga ggtgattcgt agatcccaac tgcctatgta atgtaaataa   420
tgtacattta atttattgct atggtagcac attgtatttg ttaatgtaca aaacaaattc   480
taaaagggtg acaaatgtat atttgttgc ttaaattgtg ctttgag                    528

```

<210> 787

<211> 543

<212> DNA

<213> Homo sapiens

<400> 787

```

tatactact caaggcagtg caagatcttg aagtactttt tagcagtaa gtaatattga   60
attgtattga atagtttaca tagtttattc tagtctttga aaattactga acatggacaa   120
tgtgcatgct attgacatct gccttagaac ttctgggaca atcctgattc gagagattct   180
atcccattat ttacatatac caaaaatact ttgttaattt aatgtgttgg ctteccaact   240
cctgaacacg acacaatttt attattagat ttgtatggt gattttaggc tatgaaaaca   300
tgatcattat atgtatatag atacattttt attgtttaca aatgtttgag cagctcacta   360

```

gccacccct cctctat tttt ggtaagaga atttactacc tttttaact atgtagtga 420
 gagcaacatg tattttgta ttttagaat ggtcagtata ttgctataaa attttaatg 480
 agactatgaa agttaagta ttctgattct ggtaaatta acgaatatgg ttccaggccc 540
 tgt 543

<210> 788
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (33)..(34)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (36)..(47)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (51)..(53)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (55)..(56)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (58)..(58)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (60)..(61)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (66)..(74)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (76)..(80)
 <223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (85)..(85)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (208)..(208)

<223> n is a, c, g, or t

<400> 788

```

tccagcggag gccacaagtc ctctctctcc ggncnnnnnn nnnnnnnntnc nntnnngn 60
ncnagnnnnn nnnnannnnn ccaanatact aacaaaacca gagtaatcaa gacaattatt 120
gaagagggtgg cgcccgacgg tagagttctt tcattatgg ttgaatcaga aaccaagaaa 180
cactactatt aaactgcac aagagganag agtctccctt cacacagacc attatttaca 240
gatgcatgga aaacaaagtc tccaagaaaa cactctgtc ttgatgtct atggaaatag 300
acctgaaaa taaggtgtct acaaggtgtt ttgtggttc ttttctt ctttctact 360
taccagaaag ttttcttaa tggaaagaaa aacaacttct tttctcatt tactaatgaa 420
ttcaataaaa ctttcttact gatg                                     444

```

<210> 789

<211> 548

<212> DNA

<213> Homo sapiens

<400> 789

```

gtatcggaac agtacaacat ctaaagagta aatttgaaa aggctacttt ttggaatta 60
aattgaagga ctggatagaa aacctagaag tagaccgcct tcaaagagaa attcagtata 120
tttcccaaaa tgcaagccgt caggaaagtt ttcttctat ttggcttat aaaattccta 180
aggaagatgt tcagtcctt tcacaatctt ttttaagct ggaagaagct aaacatgctt 240
ttgccattga agaatatagc ttttcaag caacattgga acaggtttt gtagaactca 300
ctaaagaaca agaggaggaa gataatagtt gtggaacttt aaacagcaca ctttggtggg 360
aacgaacaca agaagataga gtagtatttt gaatttgtat tttcggtct gcttactggg 420
actctttct ttttactta attttaactt tggtttaaaa agtttttat tggaatggta 480
actggagaac caagaacgca cttgaaattt ttctaagctc ctttaattgaa atgctgtggt 540
tgtgtgtt                                     548

```

<210> 790

<211> 196

<212> DNA

<213> Homo sapiens

<400> 790

```

agaatacttg taaaagcata tcacatctta aaccagtggg gcacatgtgg atttacagct 60
catggactct actgttcagc ttttaattat aaaacatc acacatttaa ttttatacag 120
tatttacata tagtgaaca tagggataac tcagttttat gtaaattttt gtttaagtgt 180
gtagcctgcc cagagt                                     196

```

<210> 791

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (208)..(208)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (461)..(461)

<223> n is a, c, g, or t

<400> 791

```
agctagaatt aattgcccac tctcccacc taccaagtga gcccggcaag ggcaggaatt 60
gggaggccta ggggtggcat gaaagcttgg gaagcactgt cgtctctcag acaggcgtcc 120
taaagacctc taggctggaa gcttgggctt gcaagtggat cggggaccga ggggtgtctc 180
ttggacaacc ccaggaactt ggaccaangc agagccaatc ttgcaactg gccatggatg 240
gggaagtgcc cggtagccag catgagccac actaggaaag aggaggaggg tgcagccaaa 300
cttaaggcac cggcaagtgt tgtcagcact ggaggagacc ccgccagtgg ggtgaggcca 360
gccaaagtc tgtgttacga atggtgggcc aaggggctgt ctgctcggtc ccagtaggac 420
aggcagagct ccaggctggc accatggtag gcctccaggg naagagctgg gaggcaggaa 480
tggcacactg ggcaggcttg cccattcctg gccctgagaa tggagctgta gcctcatgga 540
ca                                     542
```

<210> 792

<211> 522

<212> DNA

<213> Homo sapiens

<400> 792

```
tgtctgcaaa tccttaaatg ctacaggagc tactgaggga aatcagtgtc attatttaaa 60
gtcacgcctt gtgtttttac tactttattc agcaggatta aacctgaata acttttggct 120
gttgtgctaa tagtgtaaat aaaataagcc tgccttcata aaacactaac tttaaaagg 180
aataaacgac ttctaaaatt atgcctatta acatgtgtaa ttagtcggca gctcaaatgt 240
ttgggagtgc aagaaattag gcaccccagg atataggtca tacagggata tataaaagcc 300
atgctcatta caaatgagc agttgatgtt ttatgtggca ttaagacaat caagtctca 360
caactctgga atgtcttctt atactgatgc tgaatttatg aatccaaatt aattccaac 420
aggttggaat cagatttaat gtgagatcat gatagacaag accacagagg acgtatgtc 480
tattcttgt tggccaacag cttcttcta atgttctgtg aa                                     522
```

<210> 793

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (34)..(34)

<223> n is a, c, g, or t

<400> 793

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gctcgacgta ttcaaacat ttcaaatgc ttnatctat gttatcaca ttttaatacc 60
acagcactta taatgatgtc actacatata gaagctcaaa gttaagggat ttgctgaaga 120
ctgtaaagt aatggaagaa ttgagacaaa aatccagtgt agctggccac ttatccaggg 180
cttttctac ttcatcaca ggaatgttt gaaagtgtct gctttttta tccttaaaat 240
tcacctgtca gggaggcatt aaaaatttgg aaatgtatgc cagcaaatg tgagctctgt 300
atttttggc attcttatgt ttgggtttaa taagattaag aaaatgatac tgggaatttt 360
```

cttttctg aaactttgaa tcaccctagt aagtc aaagt actaaaaat gtactagatc 420
 attaagactt atgtgctctt actgattgaa 450

<210> 794
 <211> 544
 <212> DNA
 <213> Homo sapiens
 <400> 794

cacaggcagg tgactactcc atgcgcgtgg acctgcgggc tggggacgag gctgtgttcg 60
 cccagtacga ctcttccac gtagactcgg ctgcggagta ctaccgcctc cacttgagg 120
 gctaccacgg caccgcaggg gactccatga gctaccacag cggcagtgtc ttctctgccc 180
 gtgatcggga cccaacagc ttgctcatct cctgcgctgt ctctaccga ggggcctggt 240
 ggtacaggaa ctgccactac gccaacctca acgggctcta cgggagcaca gtggaccatc 300
 agggagttag ctggtaccac tggaagggtc tcgagttctc ggtgcccttc acggaatga 360
 agctgagacc aagaaacttt cgtccccag cggggggagg ctgagctgct gccacctct 420
 ctgcacccc agtatgactg ccgagcactg aggggtcgcc ccgagagaag agccagggtc 480
 cttaccacc cagccgctgg aggaagcctt ctctgccagc gatctcgag cactgtgttt 540
 acag 544

<210> 795
 <211> 558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (158)..(158)
 <223> n is a, c, g, or t
 <400> 795

gaatcttcac agtaacattt cagaaagggtg ctttttgggt actcttcacg ggaacagttt 60
 agcagccatg agtgatcttc ctttgaaga gaatgaaaga ccctgtgaca ttctacttca 120
 aaaataagcc ctgtagctct ttacggtcgc atagtatnaa attataccct gcctgctgac 180
 cctcgttgg aatggaatgc cagaaatgca tggcagcagc taataagtaa agctgattaa 240
 ctatttatt gtcaatgtta ttattaatg agcttccaca tgtgattgt ttcaaaactt 300
 taattttta atgtttgaa acttttcat ggacctaaat atttcttat atgatttgtg 360
 gttgattaga aatatgaaat acatgttgta gatatgtaa atgaatatt tagtctcctt 420
 attacatata tgttcaggt gaactttatc aatagtatgg atctttttaa atcaataaga 480
 tgctttgtaa agttgaaata agtaatactt tctgttttaa tctgtgcaat cagaagggtg 540
 cttgaccttc aattcaat 558

<210> 796
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (178)..(178)
 <223> n is a, c, g, or t
 <400> 796

gcacacagag atttgagaac cattgttctg aatgctgctt ccatttgaca aagtgccgtg 60
 ataatttttg aaaagagaag caaacaatgg tgtctctttt atgttcagct tataatgaaa 120
 tctgtttgtt gacttattag gactttgaat tatttcttta ttaacctctt gagttttngt 180
 atgtattatt attaaagaaa aatgcaatca ggattttaaa catgtaaata caaattttgt 240
 ataatctttg atgacttcag tgaaattttc aggtagtctg agtaatagat tgttttgcca 300
 cttagaatag catttgccac ttagtatttt aaaaaataat tgttgagta ttattgtca 360
 gttttgtca ctgttatct aatacaaat tataaagcct tcagagggtt tggaccacat 420
 ctctttggaa a 431

<210> 797
 <211> 358
 <212> DNA
 <213> Homo sapiens
 <400> 797

agagcgacgg ctgcaacagt gcctttttgt ctgttccctt gaccaatctt actgagaatg 60
 gctgatgtg ccccgctgc actgcgagct tcagggacaa atgcatgggg cccatgacct 120
 actgtactgg aaagggaaaac cactgcgtct ccttatctgg acacgtgcag gctggtattt 180
 tcaaaccag atttgctatg cggggctgtg ctacagagag tatgtgcttt accaagcctg 240
 gtgtgaagt acccacaggc accaatgtcc tcttctcca tcatatagag tgcactcact 300
 cccctgaaa agctatctga acagaggaag ataatgtagt gtgaagtccc cattgtc 358

<210> 798
 <211> 475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (61)..(62)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (64)..(76)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (78)..(81)
 <223> n is a, c, g, or t
 <400> 798

caatctatat tcacaggccc atacttcagt cagtccaatc atagtacagt gatcgaccaa 60
 nngnnnnnnn nnnnnnnnnn nttgtaaat acggatcatt tgtattttgg ggtgataaaa 120
 tagttacca tgggtatgag atatttatc tttaaatcaa agtaaattag aattttttaa 180
 aagcacaaaa ctgcaggaca gtttatgaaa taggtggcac tattaggga tcttcttta 240
 aagcaagaaa tcatgttatt tagaaagaaa aactaatctt aaacatacta ttctaataa 300
 atatttatat ttttatgaaa taaagaggtg tgtggaaatt aatatttggg gatgttgac 360
 agtggaagaa tatctagagt tttacctgc cttatctgaa ttcttctga aacttgagct 420
 taaactctaa tagctgttc ctttctatt ctgaacaact gtctccatt tcaa 475

<210> 799
 <211> 519

<212> DNA

<213> Homo sapiens

<400> 799

```

gaacagttct atgccaccag agaccactat ttaccaact ccctctgtc atttttgag   60
atgatcttgg atcttcgctg gacittatgt cttttctaca gccaaggga ggttaaagtg  120
gtggccaaag gattttgtag tgccaatggg atcacagtct cagcagacca gaagtatgtc  180
tatgtagctg atgtagcagc taagaacatt cacataatgg aaaaacatga taactgggat  240
ttaactcaac tgaaggtgat acagttgggc acctagtgg ataacctgac tgtcgtcct  300
gccacaggag acattttggc aggatgcat cctaactcta tgaagctact gaactataac  360
cctgaggacc ctccaggatc agaagtactt cgcattccaga atgtttgtc tgagaagccc  420
agggtgagca ccgtgtatgc caacaatggc tctgtgttc agggcacctc tgtggcttct  480
gtgtaccatg ggaaaattct cataggcacc gtatttcac                       519

```

<210> 800

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (411)..(411)

<223> n is a, c, g, or t

<400> 800

```

ctccagcgac ccaatggcgt gtaactgcc gcagtctcca gcggtgtggg agccccaggg   60
ctcgtccgcg tcgtcagcc accacctca tgcccacct cgcacctca accagtcccc  120
agcgtccagc tacctggaga actctgcatc ctggtacaca agtcagcca gctcaatcaa  180
ttcccacctg ccgccgccgg gctccttaca gcaccgctg gcgctggcct ccgggacact  240
ctattagatg ggctgctc tcctactctc tttttggga ctactgtgtt ttgctgttct  300
agaaaatcat aaagaaagga attcatatgg ggaagttcgg aaaactgaaa aagattcatg  360
tgtaaagctt tttttgcat gtaagtatt gcaattcaaa agaccccccc nttttttac  420
agaggacttt ttttgcgaa ctgtggacac ttcaatggt gccttg                       466

```

<210> 801

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (148)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (191)..(194)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (339)..(339)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (399)..(399)
 <223> n is a, c, g, or t
 <400> 801

```
gaggcctcac tctaagttat taccgtcccc ttcattgttt tcaaagacat gtggtgatat   60
agtttttaaa aataactatt ttgttataga tcataatag cataaaactg tacagaaata   120
ttttgtaatg tgttgatttt aaaaaaanna tctgtaaata aagttttaaa aaaagaattc   180
aaatggcana nnnngaata ttagatatt ttgctattta tttaaaggag tattttaaga   240
gatattgaac tatctgaaat tgaccagtaa tcaaagtcc aatcatctga atgcttttcc   300
ttgaggtaga atgtgagtct cagaaatgac tgcattacnt gcccttttt gcaccttttc   360
tgtcttttta ttttgcaaa caacaacaac aacaaaatng tgccttagct gtatttttt   420
gtctagggga gttgtttct gtctgacaaa gcaacatttt ttgcagaaaa cagtggatgt   480
attaaatact gtatcatacc aaaaacactg caggtgtata tagatgcttt ctgtcatact   540
gtgttttca                                     549
```

<210> 802
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (101)..(101)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (106)..(108)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (125)..(126)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (222)..(222)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (225)..(228)
 <223> n is a, c, g, or t
 <400> 802

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actgtgagtt ccactgaata cattttaatg tctgtaggaa gaatcaaaac acctatttaa   60
agatggcaat atataataat cattttaaaa gtatttgatt naaccnnnta atttccaga   120
aatgnnaaaa aaaaaaatca gctctaaaac caaagctgat ttcagaaaat ttgaaaatgt   180
aatcagccc tatccataat atagtttctc taaaacttta tntnnnnnag tcattttaaa   240
ataatataac tattaaaaaa tgtaactgct atcttaatgt tctgaaataa tttaaacat   300
```

tttaaatat gaactactgta gtataaaaga aagaaatggg gggaacgaaa agcagagaaa 360
 gaaatgccaa ttccagtcca aagttttatt tgccaagttt tcttagaatg aattttacca 420
 gtttatgaat tattgtaaac agaattgtgc atggaaatac tgaaagattt tccctagag 480
 tggccttatt gactgctggt gtgatgccac tgtaa 515

<210> 803
 <211> 197
 <212> DNA
 <213> Homo sapiens
 <400> 803

tcagctttac cctctgaact tctgatcgaa ggatccct ctccagcttg agtggatcaa 60
 agatgacaag ggccaatgga accaagtttg agtcttgcca ggtcaatact tgggtcctga 120
 gtatggtgac tagtatctgt ttgttatgt gtgtattatt ccagccagaa tgggaaatgc 180
 taattcagct cctccag 197

<210> 804
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (48)..(48)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (212)..(212)
 <223> n is a, c, g, or t
 <400> 804

ggaattcttg ttcaatactg gcaggagtga aaattggtag aacctttnta gaaggcaatt 60
 tggcaacatg tatgaaaacc taaatgttga tacaccttta cccagcagtt tgttaggaa 120
 ttatcctaa tgaataaaag ttgtccaagt ctcaaacat gagcccaaag gtatatttca 180
 tgatgtttat gatattaaaa cattggaaac anctgaaaca tccttcagta aaagatggat 240
 taaataaatt ccatgcagtt gtcattttaa aatatttaga tatatgttta tgctatgga 300
 tatatgttcc caaaatatta ttgaatcaaa aagtagacta caggatatat gttgaatatg 360
 agctcattha taacattgaa tattttaaga taatgtatgt tcatagaga gatcttcacc 420
 aaatgttaag gattttttt tctgggctgt ggtatttggg tgatctttac attcttcaga 480
 ctc 483

<210> 805
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (224)..(224)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature

<222> (260)..(261)

<223> n is a, c, g, or t

<400> 805

```

ggttacctcc cacagaacgt ggtggactcc ttcttcccc gcagcatgac ccggttttat   60
gccaaccttc agaaagcagt gaagcaattc catgagtaat gctatcgta cttcttggca   120
aagaactccc gtgactcatc gaggagctcc agctgttggg acaccaagga gcctgggagc   180
acgcagaggc ctgtgttcac tctttggaac aagctgatgg actnccatc tctgagaatg   240
ccaaccagag gcggcagccn ncccttctg cctcctgcc cactcagggt tggcgtgtga   300
tgagccatc atgtgttcca aactccatct gcctgttacc caaacacgcc tctcctggca   360
gggtagaccc aggctctaa ccattctgaca gagactcggc ctggacacca tgcgatgcac   420
tctggcacca aggttttatg tgcccatcac tctcagagac cacgttccc tgactgtcat   480
agagaatcat catgccact gaaaacca                               508

```

<210> 806

<211> 494

<212> DNA

<213> Homo sapiens

<400> 806

```

ccctggatgc gcaagctgca cataagtcac gacaacatag gcggcccggg aggcaaaagg   60
gcccggacgg cctacacgcg ctaccagacc ctggagctgg agaaggagtt ccacttcaac   120
cgttacctga cccgcagaag gaggattgaa atagcacatg ctctttgcct ctccgagaga   180
caaattaaaa tctggttcca aaaccggaga atgaagtgga aaaaagataa taagctgaaa   240
agcatgagca tggccgcggc aggagggggc ttccgtccct gagtatctga gcgtttaaag   300
tactgagcag tattagcggg tcccgcgtag tgcagtgact aaggtgactt tctgaaactc   360
ccttggttc cttctgtgaa gaagccctgt tctcgttgcc ctaattcatc ttttaatcat   420
gagcctgttt attgccatta tagcgcctgt ataagtagat ctgctttctg tcatctctt   480
tgtctgaat ggct                               494

```

<210> 807

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (42)..(42)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (48)..(48)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (75)..(75)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (83)..(83)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, or t
 <400> 807

aagtggggca aggatggacc agcagnaagg ggggtaaggc tncgttnca cttccccctg 60
 cctccacaga acgangccac ggnattccgt tatcttctc cagttttgtt cttctccag 120
 ncctcagttc caccaggtgt caggactgca tgggggcctg gggcaggcag aggagtcagg 180
 ccagggtccc tgacggagca gcactcagca tgtgagttag gccacagaaa aactctgccc 240
 cactgcttct tacctcacgg ggggtggcttt cagggattct ttagegcagc agattaaaat 300
 cttgccacag tcagaaaatt gacaacaagc ttccatgctg tacatgggtc tctttttctc 360
 tcttttattt ttaaaaagaa aaccagaaaa gatgtaccag atttgtgtaa atgagggtat 420
 gccagaaggt ggccagtttt gctttatgat cttatgaagg aagatttgtag accctacgta 480
 tatatatata cacacataca tatatatata tatccgaac caacaacggg act 533

<210> 808
 <211> 358
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (146)..(146)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (180)..(181)
 <223> n is a, c, g, or t
 <400> 808

gaaactgtat gggtagcttt ttgtttgtt tttgttttg tttgtttt tgttttgtt 60
 tttagttgta gtgcgcagcg gggaaatttt ttgcgactgt acacatagct gcagcattaa 120
 aaacttaaaa aaattgttaa aaaaanaaaa aaagggaata catttcaaaa aaaaaaaaaan 180
 ngataaacag ttacaccttg tttcaatgt gtggtgagt gcctcgattt ttcatgttt 240
 ttggtgtatt tctgatttgt agaagtgtcc aaacaggttg tgtgtggag ttcttcaag 300
 acaaaaacaa acccagcttg gtcaaggcca ttacctgtt cccatctgta gttattcg 358

<210> 809
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (263)..(263)
 <223> n is a, c, g, or t
 <400> 809

agaacctgtc gtaccagcat catgagctgg atgcaggagc ccatggctga aaggagttaa 60

aacgccagtg ggtcattaag tgaacatct tttatcaacc tgcaaaagct gcagcgttct 120
 ctgccaggtc aaatgggcat gtttagaaaa taagagaaga tggctgagta tagctaatga 180
 ataaatggtt gtttcttag aaaattaaac acacacagag tgtaagagga gaggatacgg 240
 ccctccctga aggataaagt cncctggac ggtgccctgc cctcgttct cacattaact 300
 gccaggaat gtcatgctga ttggtcccg gaagggtgtt tggcaagggg cagtgtatgg 360
 agctacgtg agaaggagag aaatttgtgt gtggctttg taaatttga ccgattgcag 420
 caat 424

<210> 810
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (333)..(333)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (360)..(360)
 <223> n is a, c, g, or t
 <400> 810
 tagagactcc cctctaaata atttactcct acattgtaa tacattgatg ccaacaaat 60
 tccaactgct actaacaag gtttggttg tgataagcta ataacagcta ctttgttag 120
 gaggtaaata tgtgtactgg agggggtaaa aatccattta ggttatggca aagatgggaa 180
 tcaaactgta aaactcatag ccccataaaa ttaatattct ttgtaagtgc ccagagggtt 240
 taagagaact tcttgcttag agtttattga taataataat gcttcagaat atccattta 300
 aatgtacagt gtaaataatg aaaatatttt acntcccag gcaagtttgt ggctgtatn 360
 ccacttagtg gctcttttg actggcagtt ctgtatatct gaaacaaata agctgtaagc 420
 acttttgta aaacttgct aaataatcct tttatgtact tgttcaga cctgttct 478

<210> 811
 <211> 529
 <212> DNA
 <213> Homo sapiens
 <400> 811

ggggtcttgt ctgtcaaagc aatgataag ttaactcagg ccattattga ctgctgaact 60
 ctctctcttc ccaactcttc ctgaaagag aaaaaatac ttgccttct tgctctcctt 120
 atcaaatggt ttgtacaaa tagtgtaagc ctgttaagc aaaccaatta aataggcac 180
 tgattatttt gatctgtttg taacaaatga atgtaagta tatttacctg gtgtgcctag 240
 gagggagtga aatcattggc actttaatcc atattgtaa gatcagtatc aaaagcatag 300
 tgttcttcac ctctctcct cagcatccat ctctatatac ttgattaaat ggaaaagtct 360
 cttttatcac ctctatgtaa agttttatgg gtagttatcg tcagtgtatt taaatatatc 420
 ttctagtatg ttttaaaggc tggcttcaa tactgtggag acaaaaaata aaagagcgta 480
 tgaaaagtac gttagacttt tgctggcatt caagtcattg ctagtctgt 529

<210> 812
 <211> 554
 <212> DNA
 <213> Homo sapiens

<400> 812

```

aatagctaca gactggaagc cagccaaatc tccattgata gggaattgat ggaaggaact   60
agggtatatc tatacaatgg gatactacac agctgtagaa aggactgcga actatttttg   120
tagttctggt ctggagaaat ctccagaata taggaaatga aaaatgtaaa gcacagaaga   180
gaatgtatgg tgtgctgtct gttgtataac gaagagacaa atggaaaaaa tatgtatttg   240
cttttttgt aaagcaatag aagaattagt tataccaata actaataaaa tgatctcctt   300
gttagtggtg gtagggagct agacaaggat ggcaactatt tctgtatctt acataccttt   360
tattttgagg ccctgtcaat gttttatata ataaacattt ttgaaaagg caactcttaa   420
aactaaaaca aacttaacag tctgtcaagt tggatgata accccacaga agacttactt   480
caagtgactt gaaaacttag tattttgtct gtactttgct aatggaatat atcctacaga   540
ccaaacaacc acaa

```

554

<210> 813

<211> 533

<212> DNA

<213> Homo sapiens

<400> 813

```

ctggcctttg gtgaccactg agaaggacac ttcacggggc cagagctcct ggtactgcc   60
ttcctttgag ggccgtggag ggctgtggac agcccagcaa cctgtcgtc ttggaggctg   120
gtgtggcctt gaggagggaa gcctcgcag ggcgtggaa gagaggcgcc tcctggcctg   180
gctctgcaga acccaggggc acgctctggg cctgggctga ggaagtcccg ctctccccgc   240
ggctctgagt tggactgagg acaggtgtgg gcgcaggtgt ggggtgcaggc gcaggtgcag   300
gcacagggcc actgtcctcc aggcaggctt ttggtgcta ggccctggga ctggaagtcg   360
cccagcccg ttttatgtaa aggtatttat ggccactgc acatccccgc tgcagccctg   420
ggatcagctg gaagctgcct gtcctcctt gcccaatccc cagaaaccct gattcaggtc   480
tgcaggctcc tgcgggctca ccaggctgct ggctccggta ccatgtaaac cta

```

533

<210> 814

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (76)..(76)

<223> n is a, c, g, or t

<400> 814

```

agttttgctt ttactccag gaacaaaaag gtaaatccca catcccagtt tctcagaagt   60
ccctgtttat tccaantgcc atcagatgtg tgcaatgtgg caaactgaag ctgcacagtg   120
ttggtttcct tgtattctga ggatgttaaa gactttgtta aatggtatc caattgctct   180
ttcacaggta gcctattaaa ctattttaat atgtttttt aaacctcata aaaatctagc   240
acactcttct cttgagcagt tagcagacct aaagcaagcc tgaattggct atgcagtaca   300
ttgtattctg ttgggggaa ttgttttag ccattttctt taattaccag tttccagaa   360
cactcttagc tatgttgaca tgaggcagtt ccttcaggt gattctgttt ccttaagtat   420
tatataaact gtgccaatac agacaaagca taatcaatat aatctgaatt attgttatct   480
ttacctctg agt

```

493

<210> 815

<211> 295

<212> DNA

<213> Homo sapiens

<400> 815

```
gtatttggtc ccagttgggt acattttaa atcctgattt tggagactta aaaccaggt 60
aatggctaag aatgggtaac atgactcttg ttggattgtt atttttgtt tgcaatgggg 120
aattataag aagcatcaag tctcttctt accaaagtct tgttaggtgg ttatagttc 180
ttttggctaa caaatcattt tggaaataaa gattttttac tacaaaaatg aaattgttt 240
ggacttccac ttgagacagt aaagagagta ttagacaccc agtaaaaact gccat 295
```

<210> 816

<211> 422

<212> DNA

<213> Homo sapiens

<400> 816

```
atggctctgg aaaaccagct gctacttcca aatctattgt ccataatggg ttctttctga 60
ggttgcttct tggcctcaga ggaccccagg ggatgtttgg aaatagcctc tctacccttc 120
tggagcatgg ttacaaaag ccagctgact tctggaattg tctatggagg acagtttggg 180
ttaggttac tgatgttca actgaatagc ttgtgttta taagctgctg ttggctatta 240
tgctggggga gcttttttt ttatattgt attttgtat gccttttgca aagtgggtgt 300
aactgttttt gtacaaggaa aaaaactctt ggggcaattt cctgttgcaa gggctctgatt 360
tatttgaaa ggcaagtcca cctgaaattt tgaatttagt tgtgattact gattgcctga 420
tt 422
```

<210> 817

<211> 352

<212> DNA

<213> Homo sapiens

<400> 817

```
gtcacacttt atggtctctg gaccccttaa tgtctgattc atgtagcaga agccagctag 60
attttcatct gtctctattc attttgtgt gatgtcatgg atcatgtggc ctctggaaaa 120
ctctactgta tactcgagaa tgagaatata acaggcaaaa taacattatc atgaaaatag 180
ttttgacctc atgaacccca tgaaagggtc ccagaccaa aattttagaa tcaactggtat 240
agggtaacac ttattgtgt aaattcagtt ctctgtaccc cacttaaata tgaattatta 300
tctcttgaca ttatttccc aaaaatgct gtttgatttc ttactgttc tg 352
```

<210> 818

<211> 335

<212> DNA

<213> Homo sapiens

<400> 818

```
acaaggccca ggctggggcc agggccagag gggaaggccc tggatttca ctcatgtgag 60
atcttgaatc tctttcttg ttctgtttgt ttagttagta tcatctggta aaatagttaa 120
aaaacaacaa aaaactctgt atctgtttct agcatgtgct gcattgactc tattaatcac 180
atttcaaatt caccctacat tctctctc ttcactagcc tctctgaagg tgcctggcc 240
agccctggag aagcactggg gtctgcagca cccctcagtt cctgtgcctc agcccacagg 300
ccactgtgat aatggtctgt ttgacattc tgtat 335
```

<210> 819

<211> 261

<212> DNA

<213> Homo sapiens

<400> 819

gaatgaagaa aagtcgcctc aacgacaaac aaaagcaccg actagatttc cttcagctga 60
 tgattgactc ccagaattcg aaagaaactg agtcccacaa agctctgtct gatctggagc 120
 tcgcagccca gtcaataatc ttcatTTTTg ctggctatga aaccaccagc agtgttcttt 180
 ccttcacttt atatgaactg gccactcacc ctgatgtcca gcagaaactg caaaaggaga 240
 ttgatgcagt ttgcccaat a 261

<210> 820

<211> 245

<212> DNA

<213> Homo sapiens

<400> 820

ggtgagggga tgacccttgg agatgaaggg aagaggtgaa gccttagcaa aaatgcctcc 60
 tcaccactcc ccaggagaat tttataaaa agcataatca ctgattcctt cactgacata 120
 atgtaggaag cctctgagga gaaaaacaaa gggagaaaca tagagaacgg ttgctactgg 180
 cagaagcata agatctttgt acaatattgc tggccctggg tcacctgttt actgttatca 240
 caata 245

<210> 821

<211> 273

<212> DNA

<213> Homo sapiens

<400> 821

acttaggtaa tttagggcgg aggattataa atgaaatttg caaaatcact tagcagcaac 60
 tgaagacaat tatcaaccac gtggagaaaa tcaaaccgag cagggctgtg tgaacatgg 120
 ttgtaatatg cgactgcgaa cactgaactc tacgccactc cacaaatgat gtttcaggt 180
 gtcattggact gttgccacca tgtattcatc cagagttcct aaagttaaa gttgcacatg 240
 attgtataag catgctttct ttgagtttta aat 273

<210> 822

<211> 492

<212> DNA

<213> Homo sapiens

<400> 822

ttgtcaaggg gctttgcatt caaactgctt ttccagggt atactcagaa gaaagataaa 60
 agtgtgatct aagaaaaagt gatggtttta ggaaagtga aatattttg ttttgtatt 120
 tgaagaagaa tgatgcattt tgacaagaaa tcataatgt atggatatat ttaataagt 180
 atttgagtac agactttgag gtttcatcaa tataaataaa agagcagaaa aatatgtctt 240
 ggttttcatt tgcctacaa aaaaacaaca aaaaaaaag ttgtccttg agaactcac 300
 ctgctcctat gtgggtacct gagtcaaat tgcattttt gttctgtgaa aaataaattt 360
 ccttctgta ccattctgt ttagttttac taaaatctgt aaatactgta ttttctgtt 420
 tattccaaat ttgatgaaac tgacaatcca atttgaaagt ttgtgtcgac gtctgtctag 480
 cttaaatgaa tg 492

<210> 823

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (118)..(118)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (125)..(125)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (133)..(133)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (136)..(136)
 <223> n is a, c, g, or t
 <400> 823

```
gagtatacat cgggtgcaggc ttctggatg acagttgggt gatatgtgc atgtggccta   60
aaagcctcca tgcatttga cctacgaatt ctatcttgg gaatttatcc taagaaanta   120
cttanggatt tantngtga taagatgttc atcccagcat tgcaatggag aaaaatggga   180
agcaatgggt tggttgggaa ttattcctt ttctgctgta acgaaagttt gcaatagggg   240
attgcttaag taaattattg tatctccatc cagatgggtg agtaccgcgc agacattaaa   300
agtcattgaa aagaacatct gactgaaaga aaaatgctcc ttgaatatta aaaggttgta   360
aaaatagtgc atgttatgtg atttcaattt tgttttttaa aatatgggtg tatgcttgta   420
tacgtagagc agataaaaaa gacggaaggc atactaaaaa atgttgagtg gttatctttg   480
tatggtgga caaagtcact gtaatttca tctttggtt                               519
```

<210> 824
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (310)..(310)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (312)..(312)
 <223> n is a, c, g, or t
 <400> 824

```
tcccttgcc tcaactgaat gcttaatggt tgtgtagtct tatactgac tctgacttc   60
aaggatcctg gtctgtacct cttaggtca acacgtttg agtgaactgg tgttggttat   120
ttggaattag atataaagtc atatatctt tggtagaggaa tggcttcata taggagttca   180
cattcaaaac aagctttgac aaaataatag agtgaataatt ggtagatcag agttgagctg   240
attggaggac caaattaaaa gactggctgg gcatgatggc tcacacctga aaaccagca   300
cttgggagn cnaaggcagg cagattgttt gagcccagga attcaagacc agcctagata   360
acctgggtat ccag                                     375
```

<210> 825
 <211> 387

<212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (74)..(74)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(99)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (112)..(112)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (128)..(128)

<223> n is a, c, g, or t

<400> 825

```
gagcacatat cttacaaaac accaaaaaat tcatagtgaa gagaaatcaa atatacatac   60
tgagtgtggg gaanccatta gacaaaactc ttcttttna caacaataaa ancctcacac   120
tggagagntt ctctgaatgc cttagaatt tggtaatat ggagaccctt cccagggaaa   180
cagaaggagg atcgtgaaaa ctgttgacta cttagaatga tcacatggtt tagtggagag   240
agcatgattc tgggttttaa aagtcattga tctcaatctc agctcctatt actaactaga   300
tcttttactt tggggtaagt cacttcatat ctttaggcct taatttcctc atctgaaaaa   360
ctggaaggcc tgacttggtg agcttta                                     387
```

<210> 826

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (119)..(119)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (124)..(124)

<223> n is a, c, g, or t

<400> 826

```
tatgactgct aaaagaacca acccaggaca gagccacaat ctctctctat ttattgtaa   60
tttatatatt tcaattgtat tcatttgtaa aactttgtat tagtgaaca tactccccc   120
agtntacttt taaaacgcc tgtaaagact ggcatttca caggatgtca gtgtttaa   178
```

<210> 827

<211> 426

<212> DNA

<213> Homo sapiens

<400> 827

```

gagagtgggtt ggggggagtg ggagagggtt gggggctggg aagacaaggg aaaagaaaat 60
gcagggtatat gctatttgtg ttcatttgt ctttgaataa cgtaagtga cagcatcatt 120
ctcgggcaga gtcctggagg acttgagtg actgctacag tttatgatct tcctaataa 180
tcgacgttcc tggaatctt tgccctga gctgacttct tctctgttgc ttgtgagcca 240
ggaatttaac agctctgttg tatgtgcagg ctgcagatgc ttctctcag cttttgctat 300
ccaatgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 360
ataaacttaa aaaacctgtt gcttccatgc aacggccac acaactggg actcatggc 420
agcctc 426

```

<210> 828

<211> 400

<212> DNA

<213> Homo sapiens

<400> 828

```

tctgttccaa aatgtacgga cccacttac aatgaaattg tagtatatga tgaagtcaca 60
gagctccaag gacatgtctt aatgcttatt gtgaagagta aaactgtatt tgtgggagca 120
attaacatcc gactctgtag tgcccactc gataaagaaa aatggtatcc attaggaaac 180
agtataattt gaccattgct atgaacatat gcattattca ttaactactt gtatttttt 240
cacttccggg cctctgaatc acataagtaa ggcattttt ttgtcaaaga cagcacaggg 300
tattaaggac acagaaaaaa aatcagaatt agtctttgt gttgtttatt ttctacctgt 360
gctttcattg tttttcata atctttctc ctccagtga 400

```

<210> 829

<211> 520

<212> DNA

<213> Homo sapiens

<400> 829

```

taaagccttt aactgttct caactcttac taaacataag agaattcata ctggagagaa 60
gcctacaaa tgtgaagaat gtggcaaagc ttttaaccgg tectcaaacc ttactcgaca 120
taagaaaatt cactatggag agaaaccata caaacctaaa agatgtgaca gtgcttttga 180
caacacccca aacttttcta gacataaaag aaatcatatg ggtgagaaat cctagaaatg 240
tgaagaatgt gacaaagcct ttaagcgggt gtcacacttg attgtatata agataattca 300
tactggagaa aactccaga agtgtgacaa atgtgacaaa acatttaatt aatttcata 360
ccttattgca caggaaagca ttatacttg agaaaaattg tataaagaat ggaaaagtca 420
ttaatatctg ctcatatctt aacatcagcg agttggtatt taataaaagc attatcaatg 480
aaattactgg caaaagatct ttcagacat ataagcctgc 520

```

<210> 830

<211> 347

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (223)..(223)

<223> n is a, c, g, or t

<400> 830

```

cactgctagc agggcttcaa ccaggaaggg atcaaccag gaagggatga tcaggagagg 60
cttcctgag gacataatgt gtaagagagg tgagaagtgc tccaagcag acacaacagc 120

```

agcacagagg tctggaggcc acacaaaaag tgatgctcgc cctgggctag cctcagcaga 180
 cctaaggcat ctctactccc tccagaggag ccgcccagat tcntgcagtg gagaggaggt 240
 cttccagcag cagcagggtc ggagggtga gaatgaacct gactagaggt tctggagata 300
 cccagaggtc cccaggtca tcactggct cagtgaagc cctctt 347

<210> 831
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (326)..(326)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (374)..(376)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (398)..(401)
 <223> n is a, c, g, or t
 <400> 831

gaaccacctc aatgcaaaga ttctacggga aaatgtgggc cccctccacc tattgacaat 60
 ggggacatta cttcattccc gttgtcagta tatgtccag cttcatcagt tgagtaccaa 120
 tgccagaact tgtatcaact tgagggtaac aagcgaataa catgtagaaa tggacaatgg 180
 tcagaaccac caaaatgctt acatccgtgt gtaatatccc gagaaattat ggaaaattat 240
 aacatagcat taagggtggac agccaaacag aagctttatt tgagaacagg tgaatcagct 300
 gaatttgtgt gtaaacgggg atatengtct ttcacacgt tctcacacat tgcgaacaac 360
 atgttgggat gggnnnctgg agtatccaac ttgtgcannn ngatagaatc aatcataaaa 420
 tgcacacett tattcagaac tttagtatta aatcagttct taatttcatt ttaagtatt 480
 gttttactcc tttttattca tacgtaaaat tttggatta 519

<210> 832
 <211> 416
 <212> DNA
 <213> Homo sapiens
 <400> 832

cagcccactc tcaagatttt gaagacattt gcctttgttt tctccagaa actttatagt 60
 tttagctgtt ggatctgtga ttatcaccag ttgattttg tgtatggtgt gaggggggga 120
 tcaagattta tttgtatat ggacatccat ctactctaca catttattga aaaaaaac 180
 acctttctt teccattgaa ttgcgtgggg actttgttaa taaatgaatg gtcatatatt 240
 tgggtctgtt tctggactct gttctttcca cttggactaa ttatccattc ttgcacagt 300
 accatacttt ttaattact gtagtttatg gtaagtcttg acatggtatt gtaaacctc 360
 cagttttgtt ctttaaacaa aatgtttga ctatttaagt gctttacatt tccata 416

<210> 833
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 833

```

agcagatgga gcccaaaagc ttttggtgaa ggccaaagca gctgagaaag cagcaaatat   60
tctattaaat cttgacaaaa cattgaacca gttacaacaa gctcaaatca ctcaaggacg   120
ggcaaaactct accattacac agctgactgc caatataaca aaaataaaaa agaattgtgt   180
gcaggaattt gttgagctga aaaaacaata tgctattctc caacgtaaga caagcactac   240
aggactaaca aaggagacat taggaaaagt taaacagcta aaagatgctg cagaaaaatt   300
ggctggagat acagaggcca agataagaag aataacagat ttagaaagga aaatccaaga   360
tttgaatcta agtagacaag caaaagctga tcaactgaga atattggaag atcaagttgt   420
tgccattaaa aatgaaattg ttgaacaaga aaaaaaatat gctaggtgct atagctaggc   480
ag
482

```

<210> 834

<211> 212

<212> DNA

<213> Homo sapiens

<400> 834

```

ccttatcatc cgtcacaggg gtcagaaagg acctcgaggg cctccaccag caggteacct   60
tctgtgatcc ccatccaag gcactggtgg tgactctgct tctgcaactg acccagagcc   120
tctgcctgtg cactgcaagc tgtgtctact caggcccca ggggactctc tgtttccatt   180
ctccccccac agacctgtca agagaagcat ga
212

```

<210> 835

<211> 264

<212> DNA

<213> Homo sapiens

<400> 835

```

ttctaaatg gtcttcttt tccattttt cccttgtaaa ataactgtct ttaatttag   60
cgagctcttc tcattgtgtt atcatttaa tgaataagta aatgagggca gtttgcttac   120
tggttaagaa aggatgcagg cttagggct ggaagcacct ggttcaaag cctggctctg   180
cctcttatca gctgcgtaac ctttgacaa gttgctttat tgctctaagt ttcagtttcc   240
tctgtgtca actctagagg actg
264

```

<210> 836

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (190)..(190)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (420)..(420)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (424)..(424)

<223> n is a, c, g, or t

<400> 836

```

tgggatttag tcagtcacag agatactatt actatgagta agaaattaat ggcaaaggaa   60
ttaatccaag aatagaagaa tgaagcaagt tcactttcaa tcaagaaact tcataatact  120
ttcagggaag ttatcttttc ctgtcaatct gtttaaaata tgctatagta tttcattagt  180
ttggtggtan cttattttta ttgtgtaatg atctttaaac gctatatttc agaaatatta  240
aatggaagaa atcaatatca tggagagcta acttttagaaa actagctgga gtattttagg  300
agattctggg tcaagtaatg tttatgttt ttgaaagttt aagttttaga cactccccaa  360
atttctaaat taatcttttt cagaaatata gaaggagcca aaaatataaa acagttctgn  420
atanccaaag tggctataat aacatcaggg ctgacacatc tttctctatt atccttctat  480
tgga                                     484

```

<210> 837
 <211> 383
 <212> DNA
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t
<400> 837
gacagaccaa agttaacaa gcctccggaa actcttatca ctactattga ttctagtcc   60
agttggtgga ccaactgggt gatccctgcc atctctgcag tggccgtcgc ctgtatgtat  120
cgctataca tggcagagga ctgaacacct cctcagaagt cagcgcagga agagcctgct  180
ttggacacgg gagaaaagaa gccattgcta actacttcaa ctgacagaaa ccttcacttg  240
aaaacaatga ttttaataa tctctttctt tttttccga cattagaaac aaaacaaaaa  300
gaactgtcct ttctgcgcnc aaatttttgc agtgtgcctt ttattcatc tactttatt  360
tgatgttcc ttaatgtga att                                     383

```

<210> 838
 <211> 507
 <212> DNA
 <213> Homo sapiens
 <400> 838

```

gattcctgtg ggtccagctt tggaaactggg aaacctttct tcggatccgc actcattcca   60
ctgatgccag ctgcccctga aggatgccag tactgtggtg tgtgagtctc agcagccgcc  120
cacacgtctc taactctgct gcatggcaga tgcttaggtg gaaatagcaa aaacaaggcc  180
cgggctgggg ccagggccag aggggaaggc cctggattct cactcatgtg agatcttgaa  240
tctctttctt tgttctgttt gtttagttag tatcatctgg taaaatagtt aaaaaacaac  300
aaaaaactct gtatctgttt ctgcatgtg ctgcattgac tctattaatc acatttcaa  360
ttcacctac attctctcc tcttactag cctctctgaa ggtgtcctgg ccagccctgg  420
agaagcactg gtgtctgcag caccctcag ttctgtgcc tcagcccaca ggccactgtg  480
ataatgtctt gtttagcact tctgtat                                     507

```

<210> 839
 <211> 502
 <212> DNA
 <213> Homo sapiens
 <400> 839

```

ctggagtctg ggggtgtgtg tcatagagat ggtgactggc aaggtttgca cagatgaaga   60
atgaagccta gtagaatatg gacttggaat attctcttaa tcactactgt atgtaatat  120

```


tacataaaga ctgtgctgag aagcagtata agccttttta acctccaag actgaagact 180
gcacagggtga caagcgtcac ttctctgct gtcctgttt gtctgatgtg gcaaaaggcc 240
ctctggagggg ctgggtggcca cgagggtaaa gaagctgcat gtttaagtcc attactactg 300
tacacggacc atcgccctctg tctctccgt gtctcgcgcg actgagaacc gtgacatcag 360
cgtagtgttt tgacctttct aggttcaaaa gaagttgtag tgttatcagg cgtccatac 420
cttgttttta atctcctgtt tgttgagtgc actgactgtg aaacctttac ctttttgtt 480
gttgttgga agctgcaggt tt 502

<210> 840
<211> 328
<212> DNA
<213> Homo sapiens
<400> 840

gatttcttt caccattcgt acataatact gaaccacttg tagatttgat tttttttt 60
aatctactgc atttagggag tattctaata agctagtga atactgaac cataaaatgt 120
ccagtaagat cactgttttag atttgccata gactacactg cctgccttaa gtgaggaaat 180
caaaagtcta ttacgaagt caagatccaa aaggcttata aaacagagta atcttgttg 240
ttaccattg agaccgtgaa gatactttgt attgtcctat tagtggtata tgaacataca 300
aatgcattt tgatgtgtg ttcttgge 328

<210> 841
<211> 546
<212> DNA
<213> Homo sapiens
<400> 841

gacacaggca ggtgactact ccatccgct ggacctgcgg gctggggacg aggtgtgtt 60
cgcccagtag gactcctcc acgtagactc ggctgcggag tactaccgcc tccattgga 120
gggtaccac ggcaccgag gggactccat gagctaccac agcggcagtg tcttctctgc 180
ccgtgatcgg gacccaaca gcttgcctat ctctgcgt gtctctacc gaggggcctg 240
gtggtacagg aactgccact acgccaacct caacgggctc tacgggagca cagtggacca 300
tcaggagtg agctgttacc actggaagg cttcgagttc tcggtgccct tcacggaaat 360
gaagctgaga ccaagaaact ttcgtcccc agcgggggga ggctgagctg ctgccacct 420
ctctgcacc ccagtatgac tgccgagcac tgaggggctc ccccgagaga agagccagg 480
tccttacca cccagccgt ggaggaagcc ttcttgcca gcgatctgc agcactgtgt 540
ttacag 546

<210> 842
<211> 399
<212> DNA
<213> Homo sapiens
<400> 842

tcacaaact ttatactct tctgtatata cttttttt ctttaaaaa caactatgga 60
tcagaatagc cacatttaga acacttttg ttatcagta atatttttag atagttgaa 120
cctggctcta agcctaaaag tgggcttgat tctgcagtaa atcttttaca actgcctga 180
cacacataaa cttttttaa aatagacact cccgaagtc tttgttcgc atggtcacac 240
actgatgctt agatgttcca gtaatcta atggccacag tagtcttgat gaccaaagtc 300
cttttttcc atctttgaa aactacatgg gaacaaacag atcgaacagt tttgaagcta 360
ctgtgtgtg gaatgaacac tcttgcttta ttccagaat 399

<210> 843

<211> 543

<212> DNA

<213> Homo sapiens

<400> 843

```

gtggaatgtc atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaagac   60
attgttctgg ttgcctatag tgctctggga tccctccgag aagaaccatg ggtggacccg   120
aactccccgg tgctcttga ggaccagtc ctttgcct tggcaaaaa gcacaagcga   180
acccagccc tgattgccct gcctaccag ctacagcgtg gggttgtgtt cctggccaag   240
agctacaatg agcagcgcac cagacagaac gtgcaggtgt ttgaattcca gttgacttca   300
gaggagatga aagccataga tggcctaaac agaaatgtgc gatatttgac ccttgatatt   360
tttctggcc cccctaatta tccgatctct gatgaatatt aacatggagg gcattgcatg   420
aggctctgcca gaaggccctg cgtgtggatg gtgacacaga ggatggctct atgctggtga   480
atattaacat ggagggcatt gcatgaggtc tgccagaagg cctgcgttg tggatggtga   540
cac

```

543

<210> 844

<211> 496

<212> DNA

<213> Homo sapiens

<400> 844

```

ccccgattca gtcccgatt gtgggaggct gggagtgtga gcagcattcc cagccctggc   60
aggcggctct gtaccatttc agcatttcc agtgtggggg catctgtgtg caccgccagt   120
gggtgctcac agctgctcat tgcacagcg atgtgaaggt cgtggagttg cccaccagg   180
aaccgaagt ggggagcacc tgtttgctt cggctggggg cagcatcgaa ccagagaatt   240
tctcatttcc agatgatctc cagtgtgtgg acctcaaaa cctgcctaata gatgagtga   300
aaaaagccca cgtccagaag gtgacagact tcatgctgtg tctcggacac ctggaagggtg   360
gcaaagacac ctgtgtgggt gattcagggg gcccgctgat gtgtgatggt gtgctccaag   420
gtgtcacatc atggggctac gtccctgtg gcaccccaa taagccttct gtcgccgtca   480
gagtgtgtc ttatgt

```

496

<210> 845

<211> 330

<212> DNA

<213> Homo sapiens

<400> 845

```

gtttctctt gccagagcta ttatgttcaa gctcctgcaa gtggtcaac ctcccagtac   60
tgtgtcactg acccatgtct tgctccctgt tccaccagct actgctgtct ggctccccgg   120
acctcgggg tgagtccct gagacgttg attcagcggc cccagaactg caacacagga   180
tcactggct gctgtgagaa ttcgggaagc tctgggtgct gtggttctgg gggctgtggc   240
tgcagctgtg gatgtggcag ctctgggtgc tgctgtttgg gaattatccc catgaagtcc   300
cgaagtctg cgttgcgtg accatgaaga

```

330

<210> 846

<211> 453

<212> DNA

<213> Homo sapiens

<400> 846

```

sgatgaaatc tcaactgtaa tgctcagaga tctttttca ctgtaagagg taacctttaa   60
caatatgggt attaccttg tctcttcaata ccggtttat gacaaaggct tattgaattt   120
attgtttgt aagtttctac tccatcaaaa gcagctttct aagttattgc cttggttatt   180

```

atggatgata gttatagccc ttataatgcc ttaactaagg aagaaaagat gttattctga 240
 gtttgttta atacatatat gaacatatag tttfattcaa ttaaaccaaa gaagagggtca 300
 gcaggagat actaaccttt ggaaatgatt agctggctct gtttttgggt taaataagag 360
 tctttaatcc ttctccatc aagagttact taccaagggc aggggaaggg ggatatagag 420
 gtcacaagga aataaaaatc atcttccatc ttt 453

<210> 847
 <211> 152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g, or t
 <400> 847

caccctgaac tctatgtta ccaatgtga tcgtctccct ctccctaaag tgnacttaat 60
 ctttgcttgc ttttgcacaa tgtcttnggt tgcaagtcac aagcctgagn caataaaaat 120
 tccagtaatt tcgaagaatg tgggtgttgc gc 152

<210> 848
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (112)..(113)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (267)..(267)
 <223> n is a, c, g, or t
 <400> 848

cttgactgaa gatattttgc tagggaagtg aaactttaaa attttgtaga ttttaaaaaa 60
 tattgttgaa tgggtgcatg caaaggattt atatagtgtg ctcccactaa cnntgtacag 120
 atcaggacac atatttttag acatctaagt ctgtagctta aatggagggt actcttccat 180
 catctagaat tgtttactta gtaattgttg tttcttttat tattatagac ttactatcag 240

ttttatttg ccaagtatgc aacaggnata tcactagtat atgaaaatgt aaatatcact 300
 tgtgtactca aacaaaagtt ggtcttaagc ttccacctg agcagccttg gaaacctaac 360
 ctgcctcttt tagcataatc aca 383

<210> 849
 <211> 506
 <212> DNA
 <213> Homo sapiens
 <400> 849

tttgccttca gtaatccct taaggagaaa atatatggac ctgatttcag ccttcagaat 60
 ctccaaaaga ggagtcatac attcatagag cacactaggg tgtaggaga gagctttgca 120
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 ggaggaacag atgcccttct ttaattgggt ctgagtaac ttctcagagg ctctggagaa 420
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<210> 850
 <211> 244
 <212> DNA
 <213> Homo sapiens
 <400> 850

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 tcataccac caagagcgtg tccaggtacc gaggtcagga gactgcctg caccacaagc 180
 tgcagagcac caagcgcttc atcaagtgtt acaacgcctg gaacgagaag cgcagggtct 240
 acga 244

<210> 851
 <211> 538
 <212> DNA
 <213> Homo sapiens
 <400> 851

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 ggatagaagg gtttgcaatg ccatattatt ggtggagggc tgtttaaca tctttgaagt 180
 atggcttgct gaatatctt accaacatct tgaatatata ttctagtgtc cacaagattt 240
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 ggttttgaaa tgttttcaa atatgtgaaa tgtgaaactg ctgtctttaa tattaaagta 480
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<210> 852
 <211> 554
 <212> DNA
 <213> Homo sapiens
 <400> 852

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 tgggggggtcc tggccctgt gatgtcccc catccccacc cacttctaca tccatccaca 180
 ccccagggtg agctggagct ccaggctggc caggctgaac ctgcacaca cgcagagttc 240
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 cggcttcaga cactcccagc gccactctt acaggcccag gactggagct ttctctggcc 420
 aagtttcagg ccaatgatcc ccgcatggtg ttgggggtgc tgggtgtct tgggtcctgg 480
 acttgagtct caccctacag atgagagggtg gctgaggcac cagggctaag caattaaacc 540
 agttaagtct ccca 554

<210> 853

<211> 549

<212> DNA

<213> Homo sapiens

<400> 853

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 cgatcgtcgt catgctcgtg ggtaacaaaa gtgacctcag ccaggcccgg gaagtgccca 180
 ctgaggaggc ccgaatgttc gctgaaaaca atggactgct ctctctggag acctcagccc 240
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 tgtccaagca gagacagaac agcatccgga ccaatgccat cactctgggc agtgcaggc 360
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 gcaccacctg cccccactgg cttttgtgc ccttgtccc cacttcagcc ccaggacctt 480
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 aaggtcttc 549

<210> 854

<211> 554

<212> DNA

<213> Homo sapiens

<400> 854

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 ttaataag ctacacattt gggtaacta gcaaataag tatttttcc ctcttgcaa 180
 cttgtgtcag agttactctg gtctgagtca acttcgtc gggaaaacct atggaacct 240
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 ccctacctgt cttgtgaag ggagaaaaat gttttagtac attataggcc cagcagcttt 360
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 tctattctt cttc 554

<210> 855

<211> 542

<212> DNA

<213> Homo sapiens

<400> 855

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taattaaagc tacctcctaa actatagtggt ctgccagtag cagactgtta aattgtggtt 180
 tatatacttt ttgcattgta aatagctctt gttgtacatt gtcagtgtaa taaaaacaga 240
 atctttgtat atcaaaatca ttagttgtgt ataaaatgtg ggaaggattt atttacagt 300
 tgttgaatt ttgtaaggcc aactatttac aagttttaa aattgctatc atgtatattt 360
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 ccaaaatca gggtattgaa aattttcat ttattcatt taaaaactag aataacagat 480
 atataaaagt gtaatcttt gtgctatatg gtatgaaata caatattgta ctcagtgtt 540
 tg 542

<210> 856
 <211> 320
 <212> DNA
 <213> Homo sapiens
 <400> 856

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 ctgagagttg ctaggggggt cttgtcgaga tcatgtcatc agcaccctca agtcaagtca 240
 cgggtttcca tagccaggca gttggtatgt acaattcagt tcagcgtatg aacttgatc 300
 tctaactga tgtccattt 320

<210> 857
 <211> 501
 <212> DNA
 <213> Homo sapiens
 <400> 857

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 aggtctcaag gaagagtcaa ctgggacaag cacaagccca ccggacatgg ccttggtaaa 180
 ggttagcaga ctggtgtgtg tggatctgca gtgcttact ggaaataatt tattcattgc 240
 agatactttt taggtggcat ttattcatt tctgtgtct taaataaaca aatgtacca 300
 aaaacaagta tcaagctgtt taagtgttc ggctactgt ccctgggtc agtagaggcc 360
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 ccgtgcactg tgtgaagcag a 501

<210> 858
 <211> 531
 <212> DNA
 <213> Homo sapiens
 <400> 858

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 tcaaagtggc cattacatcc tcttttaatt ttacataata cagatacttg agaaagtgt 180
 tgtgtgttg tatgccaaga aaattctttt tattggtgcc tatattgtaa caattattt 240
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 gcacaattac agtttataat catctgtaga agtctggaga taattttgca actcatgtta 360
 tgggttaaat gaatatttt gtaaaaagta aagcaacaaa ttataaatt gattatttga 420
 aactttacaa cacaattgca tcccaaatac aaattgtatt gcttattcat tatagctatt 480
 cgtcctgtaa tctgtttcta ggtgaagcat actccagtgt tttaggggtt t 531

<210> 859

<211> 493

<212> DNA

<213> Homo sapiens

<400> 859

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ggcagccac aagttctcg tggggagatg gaggcagagc ccagggtagg ggacagagct 60
gtggggcct ttcttgccct gggaatctgt cccaggaaga gttccccac tccatcccc 120
caaattggaa aaaccgtaca ttcaagcctg ttggccctg aaattcttaa gaatctggtt 180
aagaattaac tcaataatgt caaaagtcaa aacctcctag gggttgtcct gggagtcagg 240
ttcacgggta cagaagatga atctcagatg tcaactcaacc tgagccgtca ttctctgtgg 300
cagggtgcc ctgggtttct ctactcaat ccttgagtg taagcattg gattgtgtca 360
cagattacct ttctaccttt tctttcttt ttttctttt ttcaatata agtgcccaca 420
cctactgag tattgagttt tagagcttc gcttgatgtg ctgaccaag agacttctt 480
tgtatccttt tct                                     493
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<210> 860

<211> 527

<212> DNA

<213> Homo sapiens

<400> 860

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gtggcccaga acgaggaggg ggacgccgcc taccagcggg cagagcact ggcccaggag 120
atcctgcccc agggcccat tgcctgctgg ctgggcaaag tagccattaa ccgaggaacg 180
gaggtggaca ttgcatctgg gatggccatt gaaggatgt gctatgccc gaattattcca 240
accggggacc ggctagaggg catggcagcc ttcagggaga agcggactcc caaatttgtt 300
ggcaaatgac cccatttta acctcagca tgggagatgc atgcctgaa gagcagatc 360
cagaaggaag atttgtggcc agattgcctt catcattca cctctcaga ctccatttc 420
ttcacaagga tgatgatgga aataaaatga ctggcgtgat gcctggaacc aagtgctga 480
tctaccacc tactgtacc ttcttagct tcacctggc tagaaat 527
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<210> 861

<211> 464

<212> DNA

<213> Homo sapiens

<400> 861

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atgtacctta ttagagcacc agaactaatt tgctaagtct tttgttagt cctgcaagac 60
tgatgcttaa tacacagtct gttctcctgt gtctaggtca ggaactccag ttgtctttc 120
tgttttgtgt cctggtagca gctgttgagt aactttcatt ggaggttggg aaggaagtga 180
ggagaaagtg ttcttgttta gtgttttatt tctataata ggatgctgcc taaccagtt 240
catctctatg tctgttcac tgaatttcc gggttaattga aagaaaatat aatggatggg 300
ctccattaaa accagctcaa aaataaatc ttgtcagtaa agattcttg tcaagatgtc 360
ttggattgca cttttgttga ggaaagacag tgtaaatagt taaagaatgt tgataaaatt 420
gaaacatttg gttgtggaat tgtgtgtggt ttagagggt ttct 464
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<210> 862

<211> 548

<212> DNA

<213> Homo sapiens

<400> 862

tgcaacta tgaccctcc aaagaagaga acaggccagt ggggtgggtt tctctcgtg 60
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 agggaaacct ctcaaagtg attactaagg atgacacaca ctattacatt caggccagca 180
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 agtgtaaga ctttgactt ctttgaagt ttgtactgc ttggagagt gaatgctgcc 360
 aagagttcct cagattacaa acagcagtgg tgccattcc tccccatct tcatgttaca 420
 aacctggaaa ggctagaaca gccattaggc gtcagcatct tgactttcc ccagcatcac 480
 aaacagccat ttctcgggc accaaagtag gttcccttg ttggaacaat tacactggcc 540
 atgccata 548

<210> 863

<211> 505

<212> DNA

<213> Homo sapiens

<400> 863

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 ccttcgtttt caaggtctg acaaacacct ggcatgacag aatggaattc gttcccttt 180
 gagagatttt ttattcatgt agaccttta attatctat ctgtaataata cataaatcgg 240
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 gtccctggg ggaagtctgt tcttggat ggaattttc tcttcttt ggtatggaat 420
 tttcccttc agtgactgag ctgtcctga taggccatgc aagggttcc tgagagtca 480
 ggaaagttct cttgtgaac agcaa 505

<210> 864

<211> 554

<212> DNA

<213> Homo sapiens

<400> 864

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 tgtatcatat gtgaacattg tatcataggt aatgtgtac agacctttt atacagtgt 180
 ctgtctgtt cctgcagcaa aaatcctcta tggacatagg aggtgctgtg tccatgcct 240
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 acagccttg aactccagct gccaccaccc tctgggtcgg acactgggac cactggccc 420
 agtcttggt gctgttacc cctagccttg atgcctgccc agggaccccc agccccctcc 480
 cgttgccctg cagcttaac agagtgaacc atgtgtattg tacaggcgcg gttgtcattg 540
 cagaaaccgc tggg 554

<210> 865

<211> 498

<212> DNA

<213> Homo sapiens

<400> 865

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 ccggccttcc ctgctcggc agccaccccc taccgctgt gaccacgtcc cgctgttgc 180

cacccccaac cctgccctct gagcggcctc tgagtacctt ggcgggaggc tggcccacac 240
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 cagaggcacc tcacgccagc catcgcgag agctcagagg gccgtcccca ccctgcctcc 360
 tccctgctgc ttgcatcca ctctctggc cagagtcagg ggacagggag ggagctccac 420
 actgtaacca ctgggtctgg gtccatcct gcgcccacac acatccaccc agacctcatt 480
 attcttgcct ctatcatt 498

<210> 866

<211> 461

<212> DNA

<213> Homo sapiens

<400> 866

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 gggccaggga tgaatattg agggataaaa attgtgtaag agccaaagaa ttgtagtag 180
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 ggcttgatat ctgtactaa aaaagggtct ttaagaacct acttctaact ctctcccca 300
 atccaaacca tagctgtctg tccagtgtc tcttctgccc tccagctctg ccccaggctc 360
 ctctagact ctgtccctgg gctagggcag gggaggaggg agagcagggt tgggggagag 420
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<210> 867

<211> 398

<212> DNA

<213> Homo sapiens

<400> 867

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 ggttcaggaa gagaaaacgc agtttgcact tcaagacag ctctctaag gctggcatgt 180
 tatctccttg ctttctttt tgccgttta aatgtgtaa ttgtccagc attccaatgg 240
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 agaagtctg aatagctct tactgtctta ctgggggtg ataagattg agtggttga 360
 atttttact aatgtagct ccaagtctta aatggctt 398

<210> 868

<211> 489

<212> DNA

<213> Homo sapiens

<400> 868

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 aggatggaaa atgggggaca caaaggaaaa gcaaagtgtg acccttgggt ttggacagcc 180
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 aggcactat 489

<210> 869

<211> 495

<212> DNA

<213> Homo sapiens

<400> 869

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gtatttcatt ctgtagtggt gctagagtta gattaatctg cattttaaaa aactgaattg   60
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tcctgttatt ggagatgaaa ataaaaagca acttatgaaa gtagacattc agatccagcc  180
attactaacc tattcctttt ttgggggaaat ctgagcctag ctcaaaaaa cataaagcac  240
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cctatttatt gtgatgtgt ggttttatta tcttaaactc tgttccatac acttgataa   360
atacatggat atttttatgt acagaagtat gtctcttaac cagttcactt attgtactct  420
ggcaatttaa aagaaaatca gtaaaatatt ttgcttgtaa aatgcttaat atcgtgccta  480
ggttatgtgg tgact                                     495

```

<210> 870

<211> 517

<212> DNA

<213> Homo sapiens

<400> 870

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catagctccc catagtcagg tgtaccagcc agccaaacca acaccacttc ctagaaaaag   60
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tctgaaagag caagaagaaa gcttaggcag cctgtccac cattcccat ttgatgtca   180
gacaactgga gatgggactg aggatccatc cttaacagct ttaaggatga gaatggcaaa  240
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aaaattatca ttacagtgtg ccatattaag ccatgtgaat aagtagtagt cattatttgt  420
gaaaaattcc caaaagctgg ggaaaacaat gtgtaacttt tccagttact tgacacgatt  480
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<210> 871

<211> 519

<212> DNA

<213> Homo sapiens

<400> 871

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tgcattcaca cgtaacagg gcaccagtcg ttaacaagtg gaatggaact caaagacaat  180
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tggcggatca gagcctcaaa cacaagctg gtgtgtgcag ttgggagtcg gaatgggact  480
gaagaaacca agctgctggt gctggacttt gatgtggac                                     519

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<210> 872

<211> 372

<212> DNA

<213> Homo sapiens

<400> 872

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 aatgcctctc cacgttgcac atgtcacact ttgtctgca cataactctt tttcacaag 240
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<210> 873

<211> 486

<212> DNA

<213> Homo sapiens

<400> 873

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 tcacaggcag agaagcctgt ggctaaagtt tccacatccc attaactcag tgcctttgtc 120
 ttttcatga catggcacat agagaaaata ttttttcta gcacacaaga gcaacctgaa 180
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 ataagttcc ctacctgatg gccccctctg acataaactg cacacctggg gtgatggctt 420
 aaagccagaa agagctgagg gagttaagag ggccaacctt agggcacgtg ggcattatta 480
 aaggtc 486

<210> 874

<211> 532

<212> DNA

<213> Homo sapiens

<400> 874

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 tcttttagcc tctccttaga ggtgaatgtg aatgaagcct ccagggcacc cgtgaattt 120
 ctgaggcctt gcttaaaact cagaagtgtt ttaggcattt ggaaaatctg gttcacatca 180
 taaagaactt gatttgaaat gttttctata gaaacaagtg ctaagtgtac cgtattatac 240
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 gtttctgctt gagaacatct ctgcctaatt taccaaagcc agaccttcag ttcaacatgc 420
 ttccttagct tttcatagtt gtctgacatt tccatgaaaa caaaggaacc aactttgttt 480
 taaccaaact ttgtttggtt acagttttca ggggagcgtt tcttccatga ca 532

<210> 875

<211> 498

<212> DNA

<213> Homo sapiens

<400> 875

caccaagccg acctcagagt tgttcattct ccttatggga caaaaccggg tgaccagaaa 60
 atgggcagag agagatgacc tcggaagcat ttccacagat ggtgtcaggg ttcaagaag 120
 tcttagggct tccaggggct ccctggaagc tttagaatat ttatgggttt tttttcaaa 180
 tatcaattat atggtagatt gaggattttt ttctgtagc tcaaaggtgg agggagtta 240
 ttagttaacc aaatatcgtt gagaggaatt taaaatactg ttactacaa agattttat 300
 taataaaggc ttatatattg gtaacacttc tctatattt tactcacagg aatgtcactg 360
 ttggacaatt attttaaaag tgtataaaac caagtctcat aaatgatatg agtgatctaa 420
 atttcagca atgatactaa acaactctct gaaatttctc aagcaccaag agaaacatca 480

tttagcaaa ggccagga

498

<210> 876

<211> 547

<212> DNA

<213> Homo sapiens

<400> 876

```

gccatcactc tttttgtga ggagcctaaa tacattcttc ctggggtcca gagtcccat   60
teaaggcagt caagttaaga cactaacttg gccctttcct gatggaaata ttcctccat   120
agcagaagtt gtgtctgac aagactgaga gatttacatg ttgggaaaaa aaagaacgca   180
ttaacttagt agaactgaac caggagcatt aagtctgaa attttgaatc atctctgaaa   240
tgaagcaggt gtctctgcc ctctcatcaa tccgtctggg tgccagaact caaggttcag   300
tgacacatc ccctgttag agaccctcat gggctaggac ttctatcta gtagatattc   360
aagaccttta cctcagaatt atgtaaactg tgattgtgtt ttgaaaaat tattatttgc   420
taaaaccatt taagtctttg tatatgtgta aatgacaca aaaatgtatt ttataaatg   480
ttctgtacaa taaagttaca cctcaaagtg tactcttggg atggattctt tctgtaaag   540
tcttate
547

```

<210> 877

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<400> 877

```

tgccgtcagc cgaactttgt tatggaggga gcagcctcac acaagcagaa acactcctgt   60
ggatggtatt gtagcatgta ttgtttattt tagtcaatag accctctcct tataaatggt   120
gtttagtctt cctgttgcat ttcatgggcc tgggggttct ctngcagagg atattggagc   180
ccctttttgt gacattacca attacatctt tgcacacgtt taatactttg ttttgaaaa   240
tttaaatgct gcagatttgt gttagattct aataccaaag acagaagtaa atgttttcca   300
tatactttgt ctgacctgta tgcagccctt gtgtaatatg gt
342

```

<210> 878

<211> 400

<212> DNA

<213> Homo sapiens

<400> 878

```

tgtttttatt tttaccgtcc acttgtgcct tactgtatcc tgtgtcatgt ccaatcagtt   60
gtaaacaatg gcattcttga acagtgtgat gagaatagga atgtggtgtt ttaaagcagt   120
gttgcatttt aatcagtaat ctacctgggtg gatttgtttt taaccaaaaa gatgaattat   180
caatgatttg taattatate ggttgatctt tttgaaaag atgaacaaa ggatttgact   240
gctaataatt tattcttac acttttttct tgaataagtc tctcataatg agtgcagttg   300
cagactgtgc ctactctgat ggtatgtgcc atttgtaaaa taaaatagag cagaaaaaca   360
caaaaagaga acactgggtc agacattcag tgggcaagta
400

```

<210> 879

<211> 509

<212> DNA

<213> Homo sapiens

<400> 879

```

gcccctcacc aatgcatatg aagagtatgc ttggggaaga gcttaggaat ggggtgggca   60
tgggactgct gggtagcagc ctttgagcaa atctgcatct tctctattt ctgacctttt   120
tcacagtgcc cagtcctatt tctgccagtt gaaggcatac taatattctt tatactattt   180
aatcttttgc agaaacctta ctattataac ttgtactctt ccagatacca attcttcatt   240
ccgagagcat cggaaatgtt tttgtgtctt actgatgttt tcatgatcaa cttgtaaatg   300
taagcagttg acttcataaa aggtatttta actattcttg gagtcctttg ctaccaaacg   360
acctggtttc accatgcgat cactgacttc tctacagtga agactcttcc ttaatatagg   420
atttcgtgtg gctcttttga ttaaaaatat ctaaccttaa aagacgtaaa aatgtatctg   480
tgaaatctca ctttgtagc gttgctgct                                     509

```

<210> 880

<211> 371

<212> DNA

<213> Homo sapiens

<400> 880

```

ttctctgttc tectggaagt ccaggaaga aggagggccc cagcctaaa ttagtaatc   60
tgccttagcc ttgggaggtc tgggaagggc tggaaatcac tggggacagg aaaccacttc   120
cttttgcaa atcagatccc gtccaaagtg cctcccatgc ctaccacat catcacatcc   180
cccagcaagc cagccactg cccagccggg cctgggatgg gccaccacac cactggatat   240
tcttgggagt cactgtgac accatctctc ccagcagtct tggggtctgg gtgggaaaca   300
ttgtctcta ccagatccc tgcccacct ctcccaatt aagtgccttc acacagcact   360
ggttaatgt t                                     371

```

<210> 881

<211> 317

<212> DNA

<213> Homo sapiens

<400> 881

```

aatgttgct aagtcctggt atgatggtgt gagcttcctt ggggaagtac ttcttgagtt   60
atgtaactaa caggatgttt tactacagat ctggatggct atcagataa catggcaaaa   120
aatgatagca gaagatcatt aaaaacttaa aatatatttt attagaaaac atttatctat   180
gaatgaatat ttcttgatg ctggtctctg cacacatag cttggttact tgcatgcatt   240
cattggttgt tcaataagt agatgattac agataaact gtatttctct tatatggaaa   300
accgttatag acccaat                                     317

```

<210> 882

<211> 534

<212> DNA

<213> Homo sapiens

<400> 882

```

tatattcatc tttcagggtt aaattgttt ttctgagttt ctcgtaatgc tcatttttac   60
atgctgctac tagctttttt ttttaaaaa agtaaaagt gctgctttct aaaatattaa   120
ttgccttata ttgaaagtgc ccattgcaat cgtaagtaga ctatgtattt cctataatga   180
tgtctgatat ttaaatagga aatcagacaa acaatattca gaaagtttaa gcatataaac   240
tttttttt taacttgccct agatccctgt attccaaaac ctgctgcac ataataaata   300
tatctatata tatttagcat aagacgtgat attttaatt tcttttttaa aaaattatat   360
ttgtctctta gagttaaatt tttcttata taatattgtc atatgcata gttttaatac   420

```

aattcacatg atttctatgt ttcttaatga tattttgttg tgtaaaattg atcggattga 480
ttaaaaaaca aattctctgg aatttgtcgg ttcattgctt ttcgtattct ttat 534

<210> 883

<211> 500

<212> DNA

<213> Homo sapiens

<400> 883

gatgcatgta tcatacgtgc ttaagcaag tcattgtggcc aagcctagca tcattggagcc 60
agaaagtata gccctgctgt ctgtctacat catgatgtat aaattgatat atctacatga 120
attatagaaa cttagaagtg atctttattc agtcttataa tttttacatg aagaatctta 180
ggcctaggag gagaaaatga tttctttct attacctaac tagattgggg catatttctg 240
ataaagacc acccttagtg agattcatct ttttgtttg tgtgactata ttccatagag 300
aagaagatg gtagagctca acttcattat ataccaaagc aaaacacatg ccaaatgatg 360
actacattt accaacaatg ttgacgagt attcttgact agtgtttact atctataccc 420
ccaaaactac tactatatag acagaatgga aagtatttct attgtcctt ttttgtttt 480
ctgttctaata tgcaggagac 500

<210> 884

<211> 491

<212> DNA

<213> Homo sapiens

<400> 884

gaggaggaac tgacgcagct acgccacgaa ctggagcggc agaacaatga ataccaagtg 60
ctgctgggca tcaaaaccca cctggagaag gaaatcacca cgtaccgacg gctcctggag 120
ggagagagtg aaggagacag ggaagaatca aagtcgagca tgaaagtgtc tgcaactcca 180
aagatcaagg ccataaccca ggagaccatc aacggaagat tagttctttg tcaagtgaat 240
gaaatccaaa agcacgcacg agaccaatga aagttccgc ctgttgtaaa gtctatttc 300
ccccaaggaa agtccttgca cagacaccag tgagtgaagt ctaaagata cccttggaat 360
tatcagactc agaaactttt atttttttt ttctgtaaca gtctaccag acttctcata 420
atgtctttaa tatattgcac ttttctaate aaagtgcgag ttatgaggg taaagctcta 480
ctttctact g 491

<210> 885

<211> 493

<212> DNA

<213> Homo sapiens

<400> 885

cccccatgtt acctggactg gaacagactg tgaatatagc agaaggttcc aagaactctg 60
gtgtctgacc tagaagaggc acagttctct ctactggaaa gaaaacgatg tagccgattg 120
cacaagggtg ccaagggaag acccaggatg gcccatcaaa ggaacctggg ggaggatgca 180
ggaggctgaa gggatgcacc tggcatttct ctactgtgc tcttaccgca tcagcaaccc 240
ccaacttttg ggctactct gcccccatg cgtgaatacc ctgcttggat gctgtgcttt 300
tccggtttgt ctctaagccc ctttctccag ggcatgttgg ttccctggc ctctcagtgt 360
cctaactgga gccagagtg ccttgttctg agccaggaga cggctgagca ctggccctcc 420
acacctaagc gtcttttaca ttaacttatt ggtctgtat aacacctggg gccattgcca 480
agtggtgtg tcc 493

<210> 886

<211> 518

<212> DNA

<213> Homo sapiens

<400> 886

```

gacaacaatg aagtagcccc tgaacagcat ggagttgctg tgagtttgtt cgttgcagac   60
ctttgtgttg ggtcctggga atctgagctt tgtccctgt gcatgggtga taattgaaac   120
caagaggaca tgggatagac cttgtgacag accaattctg tgacccctgt ctctgggtc   180
acattattca ttgtgatftt aaatacagga ctaccaaaca gtacaaatct atcatgagtc   240
tggtagaaaa gtaaaagtaa aagctgcaca cgttacatac tgtttattgt tctaatgtac   300
aactaactat ttgcataaa tgtgatttaa tttattgctg ttttgttag aaaaggagaa   360
ctaatactg tggatataac ccatgttttg tataatatat tttatttctt gtgcgaactg   420
gtcatttaaa atatctactt catttgatgt ttggatataa atgtgtatgt gtccttgtaa   480
atgtttctat caagcaagaa tgccacgtac tcagagta                               518

```

<210> 887

<211> 533

<212> DNA

<213> Homo sapiens

<400> 887

```

gctcctggca attagctgga ctccatgacc caccctggt gcagcataga tccgacgtct   60
gtctgggcga agggtagggg tgggtagggg cggaagcct gactgcaaat gtcatttccc   120
tctactgctt ctctctgctt ctccccacc tgcccacatc cacagagggg agagaagggt   180
catagctaaa tgcaacaaag tctgtatctt gtccaacct gctttctgt tctgttagca   240
tatcataag taagcctttc tggatgaagga aggttgctat gaaactttt ttcttggtgg   300
aaatggccaa gtttaggcac tctgctttt gccttacct aatgcttaga aagctgtctt   360
ttcagtgggt ttgcagcccc cagatgtgtg gccaacctct gctgcaaagg aatctcttgc   420
tgagtccagg ccaccaatca ggcaaatagc ccatacattt gatcgttgta aaccatgaag   480
tctttcttg caagacgttt ttctctgct gtggtatctt gcccttaaaa att                               533

```

<210> 888

<211> 516

<212> DNA

<213> Homo sapiens

<400> 888

```

tggtcacagc gctagtcatt catttttgag aagttgcttc tttacatca gaaaaccagt   60
caatcatatg gagacttctt ttgtgatgaa aaagggtctt agaagttaaa tacatgcatg   120
cacatgaaaa catgcacaac cacagcctca atcttgattt tagtttgggg aaagagaaga   180
gaatttctg tggattattt ttctctcaag tgcacctctc tggctaacc aactctgcaa   240
gaaagcactg tgactaaaac atacataacg cctgcataaa tattccatgg ttccagttaa   300
atttcagttt tttagcctta cacatgaggt caaggagtga cgaaaataca agcaggaaaa   360
aatgaaatat ctggtttttg ctgaatgctt aatttattt ttactgtgcc actccaatat   420
ttatcaaac caatagcatg aatgcttctc tgtagtaata ctaattttgt gcctttgtc   480
tgctttctta agaccagttg ttacacttt gtagat                               516

```

<210> 889

<211> 529

<212> DNA

<213> Homo sapiens

<400> 889

```

ctcccttcc tggagggatg gccagggaag gagaaaacag agaactgaca ctttgaaac   60
cacagaatgt gttacatgca gactcgtca agggcataag ttattgtgaa cgtttttggc   120

```

```

aatcactgct caacagccct gctagatttt gtatgatgct gaattattat gcagactaat 180
tccaccagct tgagacacac catgcttggt cacttgattt tattgaaact gtggattctt 240
gcccgtgctg tccctgtat ttactttaag cactgatcac ttatcattca ttcggtatgg 300
tttccctgt ccttgataga cattctggta tgaatttga aaaataacct gctacaaatt 360
ggttgaaatg ttctgtctgt ggtgcgaacc agcattaacg gatggggcac gtgcccaact 420
gaggaacagg agaagaaatc accaatttgg gctctcagag ctaagacaca cttattgatt 480
ctgttgacac ttttgactg gtttatggcg attgtttct tggacggat 529

```

```

<210> 890
<211> 490
<212> DNA
<213> Homo sapiens
<400> 890

```

```

tagagacca tgtcatctta acctaaagg aaatcttatt gcgttatcat aaaattgatg 60
atatcttagg gtcagaattg cccctttttt tttttgaat gggaagctct cactaaaaca 120
atcctgagat ttcttaattt catggttctt taaatattat aaacacagag tcaacataga 180
atgaaattgt atttgtaaaa atacacacat tggaggacaa gacgagatga ctacttttcg 240
aagtaatgct gctccttctt aaaagtctgt ttcaatcct ggtaatatta ggggcactgc 300
ggcacctaag aagccttaaa tgagagctaa tccaatttag agagcgatgg tgcagcatt 360
tcggtctgca tatctgtgtg tccgtatctg cgtttgtgtg cgtgtacgtg tgccctgtg 420
tgtgggcccc gtttcaggc atgtagaata agcatggagt catattgagg aggactcact 480
tcttgaagat 490

```

```

<210> 891
<211> 433
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (289)..(289)
<223> n is a, c, g, or t
<400> 891

```

```

tggggaggtg aacctgtctt catcggactc tcctaccac tacacgaagg tgacctacag 60
ccaggaggac gtggacaage tgctgcacct gacacattac aatgtctgca acaaccagga 120
gcagctgctg gaggctctgc gccaggcagt gcagcggagg cggcagcgca ggccccactg 180
atggccgggg cccctgccac ccctaactct cattcattcc ctggctgctg agttgcaggt 240
gggaactgtc atcacgcagt gcttcagagc ctggggctca ggtggcacng tccagggtc 300
caggctgagg gctgggagct cccctgcgcc tcagcagttt gcagtggggg aaggaggcca 360
agcccatttg tgtaatcacc caaaacccc cggcctgtgc ctgtttccc ttctgcgcta 420
ccttgagtag ttg 433

```

```

<210> 892
<211> 399
<212> DNA
<213> Homo sapiens
<400> 892

```

```

gaactatcac aattataact taccaacaag aagggaatgc aggtagtgtg ttaggagatg 60
gtacattttt tatataacat tcacttcctt gtgtatttga tagcttttc atggtttata 120
acattttctc ctgtaaagat aggctaattt ctgaaataat aattaaatt atagaaagcc 180

```


gagaggaaat tgctagtta ttctggtag aggaattct gtattgaaa attctccaga 240
 aggaataata taaactgtgg actttgggtg ataagtatat gtaggttcgt cagttgttaa 300
 caaatgtatc cctctgttg gggctattga taatggggaa ggctgtgcat gtgtgggagt 360
 aggaggtgta tgggacatct ctgtaccttc taatcaatt 399

<210> 893
 <211> 356
 <212> DNA
 <213> Homo sapiens
 <400> 893

aattcttcag tcacgtgct ttaaatggg acaaatcta ttaagttgaa ccatatataa 60
 ttgtgatat ttgctgttt ttaactgac aagcagtaac ttcatatgt ttgccttaat 120
 atatatttgt ttagtcatg aactcataat ccattgatgc tcttcatga gaagagatat 180
 gaccatatt tcctattga tattattggt acaggcagac aacctggta ggagagatgg 240
 attctgggt catgacctt cgtgattat cgcaaatgca aacagttca gatctaattg 300
 ttaatttag ggagtaatta tattaatcag agtgttctgt tatttcaat cttat 356

<210> 894
 <211> 498
 <212> DNA
 <213> Homo sapiens
 <400> 894

ggctgagcac cagtgagtc ttgcctcta ctctgacct agacaacctg gggagggacc 60
 ctgtccccg aaaccagaca cataggacaa agtttatcta taacctggaa gaccatgagt 120
 ggtgtgaaaa catggagtc gtttatagt gactaaagga gggctgaact ctgtattagt 180
 aatccaaggg tcatttttt cttaaaaaa gaaaaaagg ttcaaaaaa aacaaaact 240
 cagtacacac acacaggcac agatgcacac acacgcagac agacacaccg actttgtcct 300
 tttctcagc atcagagcca gacaggatc agaataagga gagaatgaca tcgtgcggca 360
 gggctcctga ggccactgc gggctgggc cacagagtct acttgaagg cacctcatgg 420
 tttcaggat gctgacagct gcaagcaaca ggcaactgcca aattcaggga acagtgtgg 480
 ccagcttga ggatggac 498

<210> 895
 <211> 453
 <212> DNA
 <213> Homo sapiens
 <400> 895

aagctctac tcctgcagta agcacagatc gcaactgctc aataacttgg tattgagcac 60
 gtattttgca aaagctactt ttctagttt tcagtattac ttcatgttt taaaatccc 120
 ttaatttct tgcctgaaaa tccatgaac attaaagagc cagaaatatt ttctttgtt 180
 atgtacggat atatatatat atatagtctt ccaagataga agttacttt ttctcttct 240
 ggttttggaa aatttcaga taagacatgt caccattaat tctcaacgac tgctctattt 300
 tgtgtacgg taatagtat cacttctaa attactatgt aatttactca cttattatgt 360
 ttattgtctt gtatccttc tctggagtgt aagcacaatg aagacaggaa tttgtatat 420
 ttttaacaa tgcaacatac tctcagcacc taa 453

<210> 896
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 896

```

atattggtca ttgatcttcg ttcataaatt agtctacaga aaaaaaatgt tctgtaaaat   60
tagtctgttg aaaatgtttt ccaaacaatg ttactttgaa aattgagttt atgtttgacc  120
taaattgggct aaaattacat tagataaact aaaattctgt ccgtgtaact ataaattttg  180
tgaatgcatt ttctggtgtg ttgaaaaaga aggggggggag aattccaggt gccttaatat  240
aaagtttgaa gcttcatcca ccaaagttaa atagagctat ttaaaaatgc actttatttg  300
tactctgtgt ggcttttgtt ttagaatttt gttcaaatta tagcagaatt taggcaaaaa  360
taaaacagac atgtattttt gtttgctgaa tggatgaaac cattgcattc ttgtactctg  420
atttgaaatg ctgtaaatat gtcccaattt gtattgattc tcttt                    465

```

<210> 897

<211> 447

<212> DNA

<213> Homo sapiens

<400> 897

```

cctgtctggt cacacgagcc agtgtgagtg gaggcagagg agtgaggccc acgggcagcg   60
cccaggagcc caccctcccc tctggcccag ccaccactgc ctctcagctt caacaggtga  120
caggctgctt tcgtgacttg atattggtgt catagcattt ggcctacatt aaaagcccca  180
atttcagggg aaaggacaaa atggagagtg actgaggtgc tgacctcagg gcaaggctgg  240
tgaacctgc agcggggccag ctatggtggg aagcctggca ttgggggtgc tcttgcaac  300
gtcttaagca agcgaccccc ctgacatagc aaaaggtggc aacctatgga ggcagaaaga  360
aggacgccag cctgaccttt atctgaaacg tcttaagcag agttaatcct ggctgctcag  420
gagaggcgac acatttcaaa tctccac                    447

```

<210> 898

<211> 468

<212> DNA

<213> Homo sapiens

<400> 898

```

aactgtgtat acattcttac tgtttgaaca actattgcct ttaattaaat gtttcatttt   60
tctccagagt ccccaaagcc acatggcatt attatagtc ttttgagat gcctgtagag  120
aatgaaagta ttgactccgt tagagggaaa atgggtttct ctgggtgaat tccaacgaag  180
catacctagg ggtaacagtg aacctacctg gggtttgttt gtttggttaa ggatttatgt  240
agtgctctgc tgtaagcaag aatgagtggg ttataaactt gaagatttct ctgttaaagt  300
cacaaaaatg atcgacaaac aatatttttg tgatgtttat ttaaacgttg tattttataa  360
catacttcaa ggaagagtat cgaagtaagt tgctttataa attaagacta aattcgtatg  420
gatgcagaat tcaattaata aaatttgagc ctgttacgta aattgaat                    468

```

<210> 899

<211> 528

<212> DNA

<213> Homo sapiens

<400> 899

```

agtgttgtgt agcttaatcc ttctgaagtc tttttgcat gtagctatta atctgtggct   60
atgaaatgat cagaaatgct aagtgagatc aatattgtt tggaaaaaaa atcttgggaa  120
acaaccaag ggttttcgtt gttgtgtttt ttcttttct attttgttt acttagtctt  180
ttagctagtg gatttaattt ttgtgtgcct gtttcatttt gcaataacaa tgcagtagaa  240
tttaaaactt ggatgcttaa gaggcctgca tatagataag aatttcaggc aaaactacat  300
ttattgttaa taacagcttg ttcataggct cttgtatttt atgtaactgt gataaataat  360
gaaacttagt tatattgagg ttattgtttg tcggtgaagt gtagtcaca gtattttcaa  420

```

aagtttgac atattgttct gtgtaattgt gtaagccata attacagtgt ttaattctct 480
ttcctatta catcattcat tgaagtgat cactttacca tttgaaa 528

<210> 900

<211> 483

<212> DNA

<213> Homo sapiens

<400> 900

ttgatgtgc cgctgtgtat gttagctgaa ctttgatgag caaaatttcc tgagcgaac 60
actccaaaga gataggaaaa ctgcccgcct cttcttttt gtcccttaac caaactcaaa 120
taagcttaaa aaaaatccat ggaagatcat ggacatgtga aatgagcatt ttttctttt 180
ctttttttt tttttttt aacaaagtct gaactgaaca gaacaagact ttttctcat 240
acatctccaa attgtttaaa ctactttat gagtgtttgt ttagaagttc ggaccaacag 300
aaaaatgcag tcagatgtca tcttgaatt ggttctaaa agagtaaggc atgtccctgc 360
ccagaaactt aggaagcatg aaataaatca aatgtttatt ttccttcta tttaaaatca 420
tgctaatgca acagaaatag agggtttgtg ccaaatgcta tgaacggccc tttctaaag 480
aca 483

<210> 901

<211> 393

<212> DNA

<213> Homo sapiens

<400> 901

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gggggcagta ggccccaca caaaccttc aggcctgaat ttaaagggg aggactttct 180
gccaactttt ctgtatgcc ttgggaaagc cagttgccct gaaccagca gacaccatgg 240
aatgtccttt gcacgcatta aatgttacag aactgaagcc tcggaagcaa ttggaactc 300
gatcttctct tccttaaatg aaaagttatt gaccaaagg actttttaa agacacagga 360
cccttaactt tgcccaaag tgaggggctc cac 393

<210> 902

<211> 563

<212> DNA

<213> Homo sapiens

<400> 902

tgtttctcac catatgcttt tgttggcatt atgcagtaac cattgtcatc gttggaatga 60
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ttggacttct gaaaaatgct gaacgagaac aagaatcaga agaagaaatg tgactttgat 180
gagcttcag ttttctaga taaacctttt ctttttaca ttgtcttgg tttgtttct 240
cgatcttttg tttggagaac agctggctaa ggaatgactct aagtgtactg ttgcatttc 300
caatttgggt aaagtatttg aatttaaata tttctttt agctttgaaa atatttggg 360
tgatacttc atttgcaca tcatgcacat catggtatc aggggctaga gtgattttt 420
tccagattat ctaaagtgg atgccacac tatgaaagaa atattgttt tattgcctt 480
atagatatgc tcaaggttac tgggcttgct actatttga actccttgac catggaatta 540
tacttgttta tcttgttgct gca 563

<210> 903

<211> 471

<212> DNA

<213> Homo sapiens

<400> 903

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aactccctgt ggccgacatg agggcactcc tgacaggcaa ggactgcccc catgtccggg   60
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accgtgggga ggaggaagcg tacctcaact tcattgcccc ctccaagcgg gagttctacc   180
tgtggacaga tgggctcagt gccttgctgg gcagtcceat gggcagcgag cagacacggc   240
tggacctgga gcagctgctg accatggaga ccaagctgcg tctgctggag ctggagaacg   300
tgcceatccc cgagcggcca cccctgtgc cccaccccc caccaacttc aacttctgct   360
atgactgcag catcgctgaa ccttgacagt gtggctggcc atgggccaca gctgcggcca   420
ctgcagcagc catgaaggcg agtgggtaga ggagtgcagg caccctgacc a           471

```

<210> 904

<211> 495

<212> DNA

<213> Homo sapiens

<400> 904

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gcagctctac gacgtgatgg acgcggtccc agcgcggcgc tggaaggagt tcgtgcgcac   60
gctgggggtg cgcgaggcag agatcgaagc cgtggagggt gagatcggcc gcttccgaga   120
ccagcagtac gagatgctca agcgtggcg ccagcagcag cccgcgggcc tcggagccgt   180
ttacgcggcc ctggagcgca tgggctgga cggctgcgtg gaagacttgc gcagccgcct   240
gcagcgcggc cgtgacacg gcgcccactt gccacctagg cgctctggtg gcccttcgag   300
aagccctaag tacggttact tatgcgtgta gacattttat gtcacttatt aagccgtgg   360
cacggccctg cgtagcagca ccagccggcc ccacctctgc tcgccctat cgctccagcc   420
aaggcgaaga agcacgaac aatgtcgaga gggggtgaag acatttctca acttctcggc   480
cggagtttgg ctgag                                     495

```

<210> 905

<211> 437

<212> DNA

<213> Homo sapiens

<400> 905

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ctacaaccag atgcatcacc ttctaaaact ggtacattaa cctcaatacc agttacaatt   60
ccagaaaaca cctcacagtc tcaagtaata gacactgagg gtggaaaaaa tgcaagcact   120
tcagcaacca gccggtctta ttccagtatt atttgccgg tggttattgc ttgattgta   180
ataacacitt cagtatttgt tctggtgggt ttgtaccgaa tgtgctggaa ggcagatccg   240
ggcacaccag aaatggaaa tgatcaacct cagtctgata aagagagcgt gaagcttctt   300
accgttaaga caatttctca tgagtctggt gagcactctg cacaaggaaa aaccaagaac   360
tgacagcttg aggaattctc tcacaccta ggcaataatt acgcttaatc ttcagcttct   420
atgcaccaag cgtggaa                                     437

```

<210> 906

<211> 434

<212> DNA

<213> Homo sapiens

<400> 906

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gtctacctgg ccagtggagt ggtccatgct aagtctaaca ctctgggag ctcaggaggc   60
ttctgagctt ctctgtact gtgcatcgtg agggccagag acaggaatgt aaggattggc   120
aactgtgtta ccttcaagt ttatctcaat aaccagggtc tcagggaccc attgttctct   180
tcagaacctt atctgggaga gaaggcgaac cactccggg ttccatcat gtcaagggtc   240
caggcatcca tgtgtgcaaa ccatctgccc cagctgcctc cacagactgc tgtctccttg   300

```

tctcctcgg ccctgcccc cttcagggt gctgtgagat ggaattccag gaaagaactt 360
 caggtgtctg gacccttct atctagataa tatttttga ttcttctgct ccctagtgc 420
 ctacctgggg gcaa 434

<210> 907

<211> 551

<212> DNA

<213> Homo sapiens

<400> 907

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 gtagattgaa tagtctacat ggtctgtgag tgtgtgagat gaaccttcc atcctttgac 180
 acctggtgt atgtgtaggc taagaaggaa ggacctcct gtcagtgtgc aaagtgtaa 240
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 cttaacttt ctgaacctca gagcttcac ctataagacg gggaaaataa taccacctt 480
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 gtagctactc a 551

<210> 908

<211> 413

<212> DNA

<213> Homo sapiens

<400> 908

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 tacttgggt gacctgacc ccgaaagaga aacagacaac tctgttctca ggattgggga 180
 tggacggctt cggccaagcg ttttagctc attcactcag gccccactca gcactctgc 240
 agccaagacc attgatttg aaaatccgt cccacccgc taatgagctg ttgacactgt 300
 tgttcttgc tgaattgat tgtgacttg tagttcagag gcgtacaact agttggcgat 360
 tagacttgtt atgtgatgt accagcctga aatgcgatca ccccgtagga aat 413

<210> 909

<211> 535

<212> DNA

<213> Homo sapiens

<400> 909

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 atatgcagta aaagaaagaa agaaaaaaa aggaaaaaa aaaaaaacc aatgtttgc 120
 agttttttt attgcaaaa actaatggt gctttatatt tagattggaa agaattcat 180
 atgcaaaagca tattaagag aaagcccgt ttatcaata ctttttga aatggcaatg 240
 cagaatattt tgttattggc cttttctatt cctgtaata aagctgttg tcttaacttg 300
 aaattttatc ttttactat ggagtcacta ttattattg ctatgtgcc ctgttcaaaa 360
 cagaggcact taattgatc tttttttt cttgtttt attttttt ttatttagat 420
 gaccaaaggt cattacaacc tggctttta ttgtattgt ttctgtctt tgttaagttc 480
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<210> 910

<211> 366

<212> DNA

<213> Homo sapiens

<400> 910

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tcgctgtgag taccttcacc agaaattgtc ccacattaaa ggtctcatcc tggagtttga   60
ggaaaaagaac aggggcagct gaagttatca aggggaatttt tgagcctctg cttagtga   120
cacaaggaa caaagcagct ataaactaaa tagaatgcaa ctatctgctt ttcttatgct   180
gaccactgga gtccatgggt gcaagtagag agctgctcta ggttcttgag gtttggttt   240
cattattaat ttttagggta tgggcactgt gcaaagactc catagctgtg cctaggagtc   300
taggaaaagt gacagaggct tggcttttt acccttagtt cagccaagtc atttcaagt   360
cctgag                                     366
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<210> 911

<211> 532

<212> DNA

<213> Homo sapiens

<400> 911

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gccacttggc attagagggt ctttcatggg gagagaagga gactgaatta ctctaagcaa   60
aatgtgaaaa gtaaggaaat cagcctttca tcccggtcct aagtaaccgt cagccgaagg   120
tctctggaa cacaggcaaa cccgtgattt tgggtctcct tgaactcag ccctgcaaag   180
caaagtccca ttgatttaag ttgttgcatt ttgtactggc aaggcaaaat attttatta   240
cctttctat tactattgt atgagctttt gttgtttact tggaggtttt gtctttact   300
acaagtgttg aactatttat tattgcttgg tatttgtgct ctgtttaaga aacaggcact   360
ttttttatt atggataaaa ttttgagatg acaggaggtc atttcaatat ggcttagtaa   420
aatatttatt gtctcttat tctctgtaca agattttggg cctcttttt tccttaatgt   480
cacaatgttg agttcagcat gtgtctgcca ttcatattgt acgcttggtc aa           532
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<210> 912

<211> 404

<212> DNA

<213> Homo sapiens

<400> 912

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gtatcatgtt ttactacata ggtaatttt ttaagggatg ttgcaaaggg attactagag   60
aaagacaaaa tgtgacaaa aaaaagcatg aatatttctt aagtatctca acaacatgtc   120
aaagctgcat gttaggatg tatgtgttt gtacaaacta ttcagaata tttgtaagc   180
tataacatat ttattgtgca ttaaaattaa atacttttc cccaaaggca tgcagtcag   240
agaattacag aaaatttgca acatataaag tagtttgatc taagaggatt caacacctt   300
gtttgttgc tcagtgtgta atgactgaga ttgttaaate tttgtgaaca ttctgtactg   360
gttccaaga gctattcatt cctgtctacc tgatttcagc acaa                       404
```

<210> 913

<211> 503

<212> DNA

<213> Homo sapiens

<400> 913

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tgttcaggt ggccatagtc agtcaccatg tgtgggctca gggaccccca ggaccaggat   60
gtgtctcagc ctggagaaat ggtggggggg cagtgtctag ggactagagt gagaagtagg   120
ggagctactg atttggggca aagtgaacc tctgcttcag acttcagaaa caaatctcag   180
aagacaagct gacctgacaa gtactatgtg tgtgcatgtc tgtatgtgtg ttggggcggt   240
gagtgtgaag atgcagtggg agcatggatg ctggcatctt agaaccctcc ctactcccat   300
acctctcct ctctgggct cccactgtc agacgggctg gcaaatgcct tgcaggaggt   360
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agaggctgga cccatggcaa gccattaca gaaacccact cggcacccca gtctaacc 420
 acaactaatt tcaccaagg ttttaagcac gttcttcat cagaccctgg cccaatacct 480
 atgtatgcaa tgctcctcag ccc 503

<210> 914

<211> 331

<212> DNA

<213> Homo sapiens

<400> 914

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 aggcaggggc ctctgggaag ttactctaga aaacgaagg aggaggagca caagatcctc 120
 agcaacgaac acctgcactt agaaaaagt gacagcttct gcccaaccaca ccctacccat 180
 ggtactgtat gctattaact cctggaaacg ccccgtaa at gcgagttgtt tttgtatttg 240
 tgtgttgaga tgggccttgt ggtttctctg tactcagagc acatttctg taattactat 300
 tgttatttt attgtcatga ctgcccctga g 331

<210> 915

<211> 434

<212> DNA

<213> Homo sapiens

<400> 915

tccagattat ctctctgga cagcctcgtc ccctacagc acagtgccac cctacagccc 60
 tgggagctca ggccccgcaa cccaggggt caacatggcc aacagcatcg ccagcctccg 120
 tctcaaggcc aaggagttca gcctgcacca cagccagggtg cctacgggtga actgaagtcc 180
 agtcccacca ggaccagac gcctccctgg gtggacagca atagaaaagg gggcagacgc 240
 ccaggaagtg accttctct ggatgagctc tcctggcccg tctgtccagc ctggactccc 300
 gagcccacga ggctgttgag gccctgcag ccgggccag ctcttctgtc cttggccacc 360
 agagactgca gccacaacc ctggagggg ttgggccgga aggtggaaga gcctgccaag 420
 gacctcattt agtt 434

<210> 916

<211> 488

<212> DNA

<213> Homo sapiens

<400> 916

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 aacaagtatt ttgctatata taaagacaac aaaagaaatc tcctaacaaa agaactaaga 180
 ggcccagccc tcagaaaccc ttcagtgcta cattttgttg cttttaatg gaaaccaagc 240
 caatgttata gacgtttgga ctgatttctg gaaaggagg ggaagaggg agaaggatca 300
 ttcaaaagtt acccaaagg cttattgact ctttctattg ttaaacaat gatttcaca 360
 aacagatcag gaagcactag gttggcagag acacttctg tagtgtatc tcttcacagt 420
 gccaggaaag agtggtttct gcgtgtgtat atttgaata tatgatattt tcatgtctcc 480
 actatttt 488

<210> 917

<211> 381

<212> DNA

<213> Homo sapiens

<400> 917

gagatgttca tgttgctgag ctgtaagcag gagcacccctg tcttctctgg tctttgactt 60
 gattaaagta tctccgcttt ctggggaggg aataggggat gttttatcag tgaatgtgcc 120
 atacacctta tggccactt catgtgcctt tcagacttca aagcgcgcgc gcatgtgtgt 180
 gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgcttcttt ttctctccta aaaatcgata 240
 agtagctcca cctgaagagg gatggaacct ctgggtcagg aaacagctgg aatccacact 300
 cacctcattc ccattgtttg gatcatgctt cttccaaca cgtgttcaca atciccaag 360
 ggactgtatt tcttctctgt g 381

<210> 918

<211> 569

<212> DNA

<213> Homo sapiens

<400> 918

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 ttacttatca tccttaacta ttgcaacttg accttaaaaa gacaaaacc caaaaactc 180
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 tcgttttaat attgaaaaag cacttgtgtg tttgtttt atatgaaact ggtaccgtgt 540
 gagtgtttt gctgtcgtgg ttttaact 569

<210> 919

<211> 460

<212> DNA

<213> Homo sapiens

<400> 919

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 cacatatatt tactaagatg attaagactt acattttctg cacaggctcg caaaaacaaa 180
 aattataaac tagtccatcc aagaacaaa gttgtataa acaggttgct ataagcttgg 240
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 ttattttaca ggaatgttta atgagatgta tttcttata gagatatttc ttacagaaag 420
 cttttagca gaatatattt gcagctattg actttgtaat 460

<210> 920

<211> 540

<212> DNA

<213> Homo sapiens

<400> 920

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 gcagtcacct atgtgaacag ctgctgttt gtggccgtgc tgggtattct gatcgatgt 120
 tacatagcca tatccaggta catccacaaa tccagcaggc aattcataag tcagtcaagc 180
 cgaaagcgaa aacataacca gagcatcagg gttgtgtgg ctgtgtttt tacctgcttt 240
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ttcaaaaaat caaatatcag aaccaggagt gaaagcatca gatcactgca aagtgtgaga 480
 agatcggaag ttcgcatata ttatgattac actgatgtgt aggccttta ttgttgttg 540

<210> 921

<211> 232

<212> DNA

<213> Homo sapiens

<400> 921

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 actgaacggg ctcaggaaat gtctcttac actcagaaca ttctatttta agtatattat 180
 ttattgttg cagttcctca gggattccc ttctctgt attggtcagt gt 232

<210> 922

<211> 424

<212> DNA

<213> Homo sapiens

<400> 922

aatgactgt cttatcactc ttattgaca ttcttaggt gtaagagaaa tggaaatgaa 60
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 gtgttagatg gaaaatgctg tgtgctgcca tggtaatcag aaataataac ctgttaggga 180
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 gccataaagc tgatattctt tgtccgatta atttgaaac tgcacagaag ctgttttagt 360
 cattaatgtg taacaaaagt agcttataga atatggactg ccttattgct gttgcttacc 420
 attt 424

<210> 923

<211> 571

<212> DNA

<213> Homo sapiens

<400> 923

agtctgaagg cgaaagtcc agcaaattaa agcagaagtt ggaagctcat atggaaaaac 60
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 atataaatca aaatgtaca aagatcaatg aactgaagc tgctcttcag aagaaagatg 180
 aagatatgaa agcaatggag gaaagatata aaatgtactt ggagaaagcc agaaatgtaa 240
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 tccgtgatta tgaagaaaaa ctattgttt ctgcgtggta taataagagt ctgacattcc 420
 agaaactggg gatggaatct agactgtga gcggcgggtg tgctgcagt gacactgggtg 480
 cgtgcactcc tgcgggtct ttcttagcgc agcaacggca catcaccaac accagaagaa 540
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<210> 924

<211> 385

<212> DNA

<213> Homo sapiens

<400> 924

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 gatcttttat aatgtttcc ttataatat ctcaccatta caacaaattg tttaactgt 120

ttttctatta gctctagctg catatttgat gtaaatgaca attactgaaa aaatgtcaga 180
 aaaaacattt tcagtactaa caftaaagtg ccatatgtaa aaaagaaaaa tgtgatttgt 240
 ataactaaat aacacacaaa catcaagagg ctatttatac aaataattta ttccactag 300
 ggaaagtgca ttactgggta aggtattatc aatttattct acttgcttat aatgttacag 360
 tgaatgttct ggcttactct gcctc 385

<210> 925

<211> 386

<212> DNA

<213> Homo sapiens

<400> 925

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 cgatgtggca atcgaaactca aagctgtgtt cacagatcgg cagctactca gaaattcttg 120
 tatactctggg gagaggggtg aagaacagtc agcaatccct tactttccat tcattccaga 180
 ccagccattc aggggtgaaa ttctttgtga gtaccacagt ttccgagtgt ttgtggatgg 240
 acaccaactt ttgatTTTT accatcgcat tcaaacgtta tctgcaattg acaccataaa 300
 gataaatgga gacctccaga tcaccaagct tggctgattt aaaccacctc tatttcaaat 360
 aggatcacgt gccacaacta tctgac 386

<210> 926

<211> 480

<212> DNA

<213> Homo sapiens

<400> 926

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 atcagcactg gaatgcaaa accagaacaa acagaaggaa gccagcagcc aagccggggc 120
 agtttcagtc tccaccccaa atgcaggact gtagaagcgg ccaggaagaa aaccaccccc 180
 tcttaaggtt gttttgtga ccgttcttg gagcattgtt ctaaaaatgg gaaattacat 240
 attgtctgac caagggcaac aaacacctgc agttaaagga atacctccg cgaggcggct 300
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 ctgcttggtg cattcttca ctgcaaggg gacagagtgt gggcttaggt ttgggactag 420
 agggggcttt ggcaactatg gtgctcaggt gattatcctt cgctcgttta tccaataaac 480

<210> 927

<211> 514

<212> DNA

<213> Homo sapiens

<400> 927

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 gcttcattcc tctgatagaa caaagcgaaa tgcaggcca ccaggaggagg agacacacaa 180
 gcctttcttg caggcaggag ttccagacc tctctgaga atgggggttg aaaggaaggt 240
 gagggtgtg gcccttgac ggggtacaata acacactgta ctgatgtcac aactttgcaa 300
 gctctgcctt ggggtcagcc catctgggct caaattccag cctcaccact cacaagctgt 360
 gtgactcaa acaaatgaaa tcagtgccca gaacctcgtt ttctcatct gtaatgtggg 420
 gatcataaca cctacctcat ggagtgtgg tgaagatgaa atgaagtcac gtctttaaag 480
 tgcttaatag tgcttggtac atgggcagtg ccca 514

<210> 928

<211> 554

<212> DNA

<213> Homo sapiens

<400> 928

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aaggggacac gtgacagcgg ttgttcccc aagacattct aggtttgcaa gaaaaatatg   60
accacactcc agctgggacg acatgtggac tttatttcc agtgaaatca gttactcttc   120
agttaagcct ttggaaacag ctgacttta aaaagctcca aatgcagctt taaaaaatta   180
atctgggcca gaattcaaaa cggcctcact aggcttctgg ttgatgcctg tgaactgaac   240
tctgacaaca gacttctgaa atagaccac aagaggcagt tccatttcat ttgtgccaga   300
atgctttagg atgtacagtt atggattgaa agtttacagg aaaaaaaatt aggccgttcc   360
ttcaaagcaa atgtcttctt ggattattca aaatgatgta tgtgaagcc ttgttaaatt   420
gtcagatgct gtgcaaatgt tattatttta aacattatga tgtgtgaaaa ctggttaata   480
tttataggtc actttgtttt actgtcttaa gtttatactc ttatagacaa catggccgtg   540
aactttatgc tgta

```

554

<210> 929

<211> 547

<212> DNA

<213> Homo sapiens

<400> 929

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gaacgtcgtg tgagatccta caatggaaga ataaaatcac ctcatcttc atttcagatc   60
tgaacattag cagtgatcta gattttttt ttttaaaaca aaattaagtg tgettagagt   120
catccctcta catgggctgt ggctgtcagc ccataggttt gtcagtttca catcaaaact   180
gtgggtataa actgttgaaa ccaatcacat taaaatatatt agctgggcac agtgggtgtc   240
atctgtatgc ccagctactt gggaggctga ggcaggagga tcgttaagc acaggagtgt   300
gaatccagcc tgagcaacag agcaaaaccc cgtctctaaa atacaaataa aatatttgtg   360
tagtttttga ttaaaattga ctacagcggg cagtataaaa tacatgtcgc ttttaaggaa   420
gtgctcttta tgtatctaac agatggaagt tttgcattg gtaagagcat ttatatatgc   480
ttgtttcag ggtttatgga tttgtattca tatattgtca aataggtttc atactctaatt   540
tttactt

```

547

<210> 930

<211> 402

<212> DNA

<213> Homo sapiens

<400> 930

```

gatgagatgg ttgtgcccct agtctgttgg tagaaccaga aatcaatatg ttgtctttta   60
ggttaaagct tgtacaaaaa tatttatttc cccatttca agccctgagt caaacatttt   120
ttctcttaa taatagacct gaaatgtttt attagtattt ctgtgaaac agttgattct   180
tgtgccattt ttgtatatgt aattgtaatt ttgccatgt taggccctct aaaaaatgtt   240
tgacatcctt tgagatattt tattactaaa atctgatctt ttttggtac tgcaaaaatc   300
tattcagcaa gaaggtatca gctgcatacc ttgcacagtg gagctgacta cctataaact   360
ctccctaagg catttgttta caggtgtatt ccattttagc ag

```

402

<210> 931

<211> 452

<212> DNA

<213> Homo sapiens

<400> 931

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cgccgactct ttactgag ttccagagg aagactagcg cggccaccgc gaagccgcca   60
accaccgga gagggggcct ctgaacttgg actcctggga acatggacaa gcccggcgct   120

```

gccacgccgg ggcctccacc gcctgggcct gagcctgacc gggccattcc caaatttggg 180
 acgcggaagg agaggctctc ggagcagaag aggccagata ccctgaagca taaagttaa 240
 cgtcaaaagt ttaacatgga gaaggcgggt ccgttctgaa gcgtggctg ctgtccctg 300
 ggctgagggc ctctggggcc tgtcgggcct ccgatttcat cctcagacgt aatgctcacc 360
 aacagcactt gcactgagtt gactcttgca cactcgactc cataatatga tgcttttaa 420
 gatgtatgt cacaccaata attgcctgct tc 452

<210> 932

<211> 496

<212> DNA

<213> Homo sapiens

<400> 932

tgacaggacc aggatgtccc tcattttgc caaccagaca gaggaggata tcttggtcag 60
 aaaagagctt gaagaaattg ccaggactca ccagaccag ttcgacctgt ggtacacct 120
 ggacaggcct ccattgggt ggaagtacag ctccaggctt gttactgccg acatgatcaa 180
 ggagcacctt cctcctccag cgaagtccac gctcactctg gtgtgtggcc cgccaacact 240
 gatccagacg gcggtcacc ctaacctgga gaagctgggt tataccagg acatgatttt 300
 cacctactaa caaacacctc catgtgtcga gcaaatgtgc atgtcccttt tcactgttt 360
 cagagtaagt tcaatttcac cacggtaaac tgggatgttt tcaaaagtgc ctggccatgt 420
 accttcgcgc acacactggt tctcctctt tgggtgtggg cctaacaaaa agggctcaag 480
 gggctggaga ctggct 496

<210> 933

<211> 487

<212> DNA

<213> Homo sapiens

<400> 933

ggcccacctc agctgtagt gtacctgcca cggggccagc cccccacagc gcaggggctg 60
 gtctgtcgc gatctcagt aaggaggtgg tgcggaggca agaggctggg ctagggtgagc 120
 ctactgtgtt ggccctgggt gtgtttggg cctcactgc tgcctgtgt ctggtactg 180
 tgttctgtac cctgagggcc tggcgccggg gtgtctgccc ccttgacc cgttcttacc 240
 ctgccccaca ctatgtcca gcgtgccagg accaggagtg tcaggttagc atgtgccag 300
 cagggtccc cctgccacgt gacttgcctc ctgagcctgg aaagaccaca gcactgtgat 360
 ggaggtgggg gctttctggc ccccttcctc acctcttcca cccctcagac tggagtggc 420
 cgttctacc accttcagc ttgggtacac acacagagga gacctcagc tcacaccaga 480
 aatatta 487

<210> 934

<211> 321

<212> DNA

<213> Homo sapiens

<400> 934

tccattacca agagtcatt ccacccgggt cctgcatgcc agaggagccc aagccaaaga 60
 ggggaagacg atcgtggccc cggaaaagga ccgccacca cacttgtgat tacgcgggct 120
 gcggcaaac ctacacaaag agtcccatc tcaaggcaca cctgcgaacc cacacaggtg 180
 agaaacctta cactgtgac tgggacggct gtggatggaa attcgccgc tcagatgaac 240
 tgaccaggca ctaccgtaa cacacggggc accgcccgtt ccagtgccaa aatgcgacc 300
 gagcatttc caggtcgac c 321

<210> 935

<211> 194

<212> DNA

<213> Homo sapiens

<400> 935

```
gcatcagtga atcgggccac atctgcagcc agatgttcga aggccagatc ctggacgtga   60
agggaggccg gggctacgac cgggaccacg tgggtctatg ggagccggat gaggacaggg  120
catcccagat ctggactatc cactgtcttt gaaacttttc cctcacctc ccagccctgg  180
aggcttttgc tggg                                     194
```

<210> 936

<211> 415

<212> DNA

<213> Homo sapiens

<400> 936

```
aaagactgga acccacgttc tcagctctca ccaagtggac ttttgcggg gtgtggcggc   60
egggtctcga ccacagcgtg gatcacgggc tgttaggaa actgcagctg cacaacgtgg  120
ggtgcaaaac tgccccgctt cctttacagc tcttctaac cctcacctcc atccccctc  180
accaggcac cttcgtctcc agatgtctcc aggctgtcac tcaattcggg catttcattc  240
atttatcaca catgggcact ggggttgggc taacagcaag agacaatagg cctttgttcc  300
tatttattgg gtactgtta cgtgctaagc agatcagttt attaatgct tgcaacgact  360
ctctgaggta gaaaatattg ttaattccgt tcaggatccc ggctacataa tctgt      415
```

<210> 937

<211> 523

<212> DNA

<213> Homo sapiens

<400> 937

```
agctcacgat gggcagtggt ctccatacta ttattagctc tcattgtccc cctgggccta   60
gccgtagggc tggctgtgac tggaggggac tctgaaggag ggcgggggctt agcccaggct  120
gtgttagagg gtgtggcagc tggtagcttc ctgtatgtca ccttctaga aattcttcca  180
cgggagctag ctatgcctga ggccccctca gctaagtgga gctgtgtagc cgctggtttt  240
gccttcattg cctttattgc ctgtgtggcc tgagagattc ctggcttttc tgatggacct  300
atttaggaca acctctctat ccccaggag acctccaaa tggctttgac cctcagacat  360
ttctttactc agactaaata gcattcagta ggactggact ggaccccagg ttctcttac  420
atgagatccc atttctcacc ctggactaag acaaagatat ttaggttgag cagctattaa  480
ttggagaatt ggtacagaga cgctccagat ttattctta tcc                          523
```

<210> 938

<211> 511

<212> DNA

<213> Homo sapiens

<400> 938

```
aaggaaactc atctccgagg ttgacagcga cggcgacggc gaaatcagct tccaggagtt   60
cctgacggcg gcaaggaagg ccagggccgg cctggaggac ctgcaggtcg ccttccgcgc  120
cttcgaccag gatggcgacg gccacatcac cgtggacgag ctgaggcggg ccatggcggg  180
gctggggcag ccgctgccg aggaggagct ggacgccatg atccgcgagg ccgacgtgga  240
ccaggacggg cgggtgaact acgaggagtt cgcgaggatg ctgcccagg agtgaggctc  300
cccgcctgtg tccccctggc tgcgtctga gccttcaggg ccaccgcccg ctgctgcttt  360
tgtctgga cctccgggg aaacctggc ggtggatggg aaactgcctc cccctgggag  420
gaaggctttg cgctccgggg cctggatgcg gcgccctcgg gccgcctgag agcccctctc  480
```

tgccctcaga ccttgggcag aaggaggcct c

511

<210> 939

<211> 389

<212> DNA

<213> Homo sapiens

<400> 939

ctagaatttc catgtctctg cttagctgtg ctggcagcta gcagctggct gtgtttgcag 60
 tgcaaatagc tctgttcttg gaaatcctgc tcatggtatg tccccagtgg ttcttcac 120
 cacatcatct aaagcctgaa cccgttcttc tctggttcaa gtcagtggct gacacggact 180
 tgtatctcct tcagagctcg gctggcacc agcctccctt ctcttcac tcccttagta 240
 cactggagtg ccgagccctg ccttcaccc agcgtccatc cagccctgt cctcacctct 300
 ccggcacctc ctctccttc tgcatttct atcttctgt gtcttgcga tgggaagcag 360
 ccttcagtgc cttcatgaat tcacctcc 389

<210> 940

<211> 466

<212> DNA

<213> Homo sapiens

<400> 940

gcatgtgtt ggtatcttca acagtagacc aagaatctaa catcactctc agtaatatag 60
 agaccggaat acatgggtta taggaaatga tcaaatgac caaaaaact ccacatttt 120
 taagaagttg gaatttgatt tcatgcataa ctgtattaaa acattaaata gaaataatgt 180
 catttgaatg aaaatcttat cacattaaat tcaactgtgaa ggcagcatac ttaaaggaat 240
 ttgattcat gcataactgt attaaacat taaatagaaa taatgcatt tgaatgaaaa 300
 tcttatcaca ttaattcac tgtgaaggca gcatactaa attttattt tgaaggctct 360
 aaaaggctta gattttttaa atttaataat tatttctaca aattttctat tttcttgag 420
 gtgatttca actagcaatt ggaactccta ggctctatta acataa 466

<210> 941

<211> 505

<212> DNA

<213> Homo sapiens

<400> 941

ttctgttac ttacacctca ggtcgtaact ttctttatgt gtttcattac agtccaaaa 60
 agccttcag aatttctga ggcaaaaaca ccttccctt ttgagaaacc taggggcaca 120
 ttgggtaata agagtacctt aaatttaata ttaaggctgt ggggtggtgat tgcttaattc 180
 tgcaggacac atttactgca tcttattctt ggaaacctca tgaactgata gttaggcaaa 240
 caaatgggtg atttgatttt ttttaataa atctatttgg attttctgca aattcggtaa 300
 aacctatcag tcttaattcc acataatcca cttagctttt tgccttaaa aatgctgaca 360
 gtctgacacc aaactctggc ctctctctga ccactaatca aatgttctct ggaatggatac 420
 atactgattt cttactgata tataatgact ttttattgta ttggtatact gcaggcttct 480
 ggtagccact taaccatacc agcaa 505

<210> 942

<211> 545

<212> DNA

<213> Homo sapiens

<400> 942

aactgatggc tggcatctga tatgcagagt tagtcaacag aactggcat caattacaaa 60

atcactgctg ttctgtgat tcaagctgtc aacacaataa aatcgaaatt cattgattcc 120
 atctctggtc cagatgttaa acgtttataa aaccggaaat gtcctaaca ctctgtaatg 180
 gcaaattaaa ttgtgtgtct ttttgtttt gtctttctac ctgatgtgta ttcaagcgt 240
 ataacacgta tttccttgac aaaaatagtg acagtgaatt cacactaata aatgttcata 300
 ggttaaagtc tgcactgaca ttttctcctc aatcactggg atgtaagta tcagtgcactg 360
 acagctaggt ggactgcccc taggacttct gtttaccag agcaggaatc aagtggtag 420
 gcactgaatc gctgtacagg ctgaagacct ccttattaga gttgaacttc aaagtaactt 480
 gttttaaaaa atgtgaatta ctgtaaaata atctattttg gattcatgtg tttccaggt 540
 ggata 545

<210> 943
 <211> 414
 <212> DNA
 <213> Homo sapiens
 <400> 943

gggctgatca ggttgggta tgcaagaatc tcccatgctg aactgagtga ttcagaaatt 60
 cagatggcaa aatttaggat ccctgatgac cccactaatt atagagacaa ccagaaagt 120
 gcatagacc acagagaagt ttctgagaaa attcatttta atccagatt tggatcctac 180
 aaagaaggac acaattatga aaacaacct aatttcata tgaatactcc caaatacttt 240
 ttatgaaaca tttaaaca gaagttattg gctgggaaaa tctaagaaaa aaagtatgta 300
 agataaaaag aagagattaa tgaaagtggg aaaatacaca tgaagaacct caacttaaaa 360
 aacacatggt atctatgcag tgggaaatta cctccatttg taaactatgt tgct 414

<210> 944
 <211> 163
 <212> DNA
 <213> Homo sapiens
 <400> 944

gaaaagtagc tctaatcaag tgatatttct gggatatatc acttcagcac ctggetccag 60
 agattatcta cagctcactg aacatggcaa tgtgaaggat atcgacagca ctgatcatga 120
 cagatggtgt gaatacatta tgatcgagg gctgatcagg ttg 163

<210> 945
 <211> 553
 <212> DNA
 <213> Homo sapiens
 <400> 945

atttctcgg aagctgagcc agtctcctgg tctagcccag gttgccagaa cgcttgcat 60
 tgcagagtgc tagagccagt ggagaacttg ccaacttgat tgtttacag cagaggaaag 120
 aggatcacag agggaaaaatg attcaccac agtcacacag caagttcatg gctgagctga 180
 gaccaggatt aagcttcctg actcccagtt caccatgaaa agggttctgg caacaggttc 240
 aagctggaga atcttcaaa atgtacacc cacattctct ccaactcttc atctccctga 300
 tcttcagac aaactacctg gatgttgccc ttaaaccatt tctagctgtt aacctatcc 360
 agaaaaatga ttgagtata gctgagaagt ggaaagtgtg ggatttttg caggtgctct 420
 ctttctcgg cccccgcgc catctttct cttctcttc tctgtaatgg tatgtccagc 480
 ctcactctcc ctccctgggt ctgtatgcgt tccccctgtt agctacattt gtgatcacat 540
 acccttcttt taa 553

<210> 946
 <211> 560

<212> DNA

<213> Homo sapiens

<400> 946

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gagtgcagta gcaagatctc ggctctcacc gcaacctcgc tctctgggt tcaagcgatt   60
ctctgcctc agcctctctaa gtatctggga ttacaggcat gtgccaccac acctgggtga   120
ttttgtatt ttagtagag acgggggttc accatgttgg tcaggctggg ctcaaactcc   180
tgacctagt atccaccctc ctgggcctcc caaagtgtg ggattacagg catgagccac   240
cacagctggc cccctctgt tttatgttg gttttgaga aggaatgaag tgggaaccaa   300
attagtaat ttgggtaat ctgtctctaa aatattagct aaaacaaag ctctatgtaa   360
agtaataag tataattgcc atataaattt caaaattcaa ctggctttta tgcaaagaaa   420
caggtagga cacctagggt ccaattcatt cacattcttg gttccagata aaatcaactg   480
tttatcaaa ttctaatgg atttgctttt cttttatat ggattccttt aaaacttatt   540
ccagatgtag ttccctccaa                               560
```

<210> 947

<211> 288

<212> DNA

<213> Homo sapiens

<400> 947

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ggctgaaagg attttacatt tattcaaagt caaaagggaa aagaaatcca agaactacag   60
aagagcagtt gaagtgattt atgcttgatt tctaaatgca acttatgttt atacataatt  120
taaaactcaa agaaagcatg cttatacaat catgtgcaac tttaaacttt aagaactctg   180
gatgaataca tgggtggcaac agtccatgac acctgaaaac atcatttttg gagtggcgta   240
gagttcagtg ttcgcagtcg catattacaa ccatgtttca cacagccc               288
```

<210> 948

<211> 513

<212> DNA

<213> Homo sapiens

<400> 948

```
ttttatctc cacacgcagt atgaagataa aattacatag tattacctag acatagacag   60
tattacctag gtagatgcac tgctcacctg caccctccc agctctcatt ttgttaggt   120
gatttgggat agggatagtg ttttggggta tggggggagt gttctgacc tgctttgcag   180
acgtgcctcc gcacctcagc agtttggggt gtggccccag ggcggttctt ggatgtaaaa   240
gatgtggcca ttagcctcg taacttcaact gtcacctgtg tcccataggg tgcttctga   300
atactgttat tagaataagt ttgttcgaga acgtgacctt gcgtgcaaac atgtaccgtg   360
gcctgggata tgatagagat tgatattaat gtaccatgta tgtaaatgtg aatctgtggg   420
caggatactt ttccatggca ggaaatatcc aagctgttga aactggctat gtttaatat   480
gcctcattgt gcctttactg ttgtgtggac tgc                               513
```

<210> 949

<211> 284

<212> DNA

<213> Homo sapiens

<400> 949

```
ctttatcatc cccacaaaca tttgaaact ggaatatttg tcttcagaaa atggaaacaa   60
gactataaat gataagccct gtccctagca ccacctctcc tgtgtgtgga atagaggccc   120
ctcgtgtac caacacttac cctgtgttta aaaagatctt gtaccaagcc aacggcgctc   180
ctggctctcc tgcccacagg atgaacattt tcggcttcct taggagtttt gccctaccgt   240
attccaaagc gtgtgctggt ttctcatatt gtctgtagtc tcac                               284
```


<210> 950

<211> 511

<212> DNA

<213> Homo sapiens

<400> 950

```

gggacttaac atttcacgtt gtatcttact tgcagtgaat gcaagggtta cttttctctg   60
gggacctccc ccatcaccca ggttcttact ctgggctccc gattcccatg gtcctccaaac  120
catgccgcat gggttggtta atgaaacca gtagctaacc ccaactgtgt tccacatgcc   180
tggcctaaaa tgggtgatat acaggtctta tatccccata tggaatttat ccatcaacca  240
cataaaaaca aacagtgcct tctgccctct gccagatgt gtccagcacg ttctcaaagt   300
ttccacatta gcactcccta aggacgtctg gagcctgtca gtttatgac tgacctaggt   360
cccccttctc ttctgtcccc tgttttaag tccggatttt tacagaagga actgtctcca  420
gacagctcat caaggaacca agcaaaggcc agatagcctg acagataggc tagtgtaat   480
tgtgtatatg ggcgggacgt gtgtgtcatt a                               511

```

<210> 951

<211> 316

<212> DNA

<213> Homo sapiens

<400> 951

```

cctctgtcct caaatgtcca aaatgttga ggacctctgt tcatatccca cgcctgggct   60
cttgccagca gtggagtac tgtagaggga tgtcccaagc ttgttttcca atcagtgtta  120
agctgtttga aactctcctg tctctgtgtt ttgtttgtgc gtgtgtgtga gagcacatca  180
gtgtgtgcag gctgtgtttc cccattcttc tctcccttc agacccatca ttgagaacaa  240
atgtaagaaa tcccttccca ccacctccc tgcctcccag gccctctgcg ggggaaacaa  300
gatcaccag catcct                               316

```

<210> 952

<211> 149

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (55)..(55)

<223> n is a, c, g, or t

<400> 952

```

atattttgta tcatcgtgcc tatagccgct gccaccgtgt ataaatcctg gtgtntgctc   60
cttatcctgg acatgaatgt attgtacact gacgcgtccc cactcctgta cagctgcttt  120
gtttctttgc aatgcattgt atggcttta                               149

```

<210> 953

<211> 475

<212> DNA

<213> Homo sapiens

<400> 953

```

cttggtgtcc tgggtgaat agacaagaag ctgtactata tgttgcctc tcagtggcaa   60
caatgaagtt ttgcaattc tagaacttgg atttttttt aacaaaagtc ccaaaacacc  120
aaaaatgtaa acaagataag agattaatat tgtagtgatg taatttaatt aaagttatat  180

```

tttgggttaa tttaacaac tgaagtctta ttgtgaaac ttatttcaa caaaactgtg 240
 cagttaaatt tgtatacgt ttcacatact gaaagatgaa ccgttaaatt agcacttaat 300
 tttgtgttc ttcaatatgt cttgatatac tttgtgcaat taatattaca catgtaagtt 360
 gtatggcagt ttacagaact caatgacttg tcatgaggtt ttcatatgag ctacacattg 420
 tgtacattga ttgttttta tttttacata aatccattct gtcattttca acttt 475

<210> 954

<211> 402

<212> DNA

<213> Homo sapiens

<400> 954

aaagtcagtc cattttcaag ttttggctt cagagacaaa agaacgtccc agccacctga 60
 ttttgatggg gaggtaactc taagtgaat tcaggctagt gttgcagtat agctttggca 120
 tgttcagtag tgagcaccca gaatgtgtg aaccaacccc caccctaac tactgactat 180
 gactgcagtg gggttttatg gggaaaaaaa gtgtgaaaag caaaaagaaa ggaacagaga 240
 tttttatca cctttattgt aagacagtc atttatgaat tgagtataa cacatacaaa 300
 gtaacaagag attcctaaga aacgcaaac cttgagttc acgcacttca tgttcaacca 360
 tttgctgtaa tcagaggca gcctgtgaat cattctcatg cc 402

<210> 955

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (29)..(29)

<223> n is a, c, g, or t

<400> 955

atccgacttg aatattcctg gacttacana atgccaaggg ggtgactgga agttgtggat 60
 atcagggtat aaattatac cgtgagttgg gggagggaag accagaattc ccttgaattg 120
 tgtattgatg caatataagc ataaaagatc accttgtatt ctctttacct tctaaaagcc 180
 attattatga tgttagaaga agaggaagaa attcaggtac agaaaacatg tttaaatagc 240
 ctaaagatg gtgcttggtg agtcttggtt cttaaaggtag caaacaagga agccaaagtt 300
 ttcaaactgc tgcatacttt gacaaggaaa atctatatt gtcttcgat caacatttat 360
 gacctaagtc aggtaataata cctgggttac ttctttagca tttttatgca gacagtctgt 420
 tatgcactgt gggttcagat gtgcaataat ttgtacaatg gtttattccc aagtatgcct 480
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<210> 956

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (332)..(332)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (365)..(365)

<223> n is a, c, g, or t

<400> 956

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cccaggcctg tcactttgag aggggcaaaa ctgagagggg ctttcttag agaaagagaa   60
caaggagctt gccaggcttc atgtagccga cacacgtctc aggattttaa gtccacattg   120
gcctcacact accagggcca atgccccaaa taaggagttc caattggggg ccaaagagg   180
aaggacacag actctgccct gggatctcct gtgctagcgg ccaatgacaa atccagtcac   240
tggccaccag ccacctctgc agtggggacc acactagcag cctgactcc acactcctcc   300
tggggacca agaggcagtg ttgctgtctg cntgtccacc ttggaatctg gctgaactgg   360
ctggnaggac caagactgcg gctgggggtg gcagggaagg gaagccgggg gctgctgtga   420
gggatcttgg agcttcctg tagccacact tccccttctg tcatgtttgt agaggaacct   480
tgtgccggcc a                                     491
```

<210> 957

<211> 253

<212> DNA

<213> Homo sapiens

<400> 957

```
gtaaatagtt aaccttcagt agtctattaa ggcattaata cttctctgga catgcgcgtt   60
tgagggtgga ggggtcctgt aaggtgcttc atcgtctgtg attactgctt gggatgtgtt   120
ctttggcagc ttgtgagatt actttaccta gtgtttataa agtaggaagt taagtgaatc   180
atagattaga atttaatact cttatggaaa taattttta acatcttaac tgacaatggc   240
gttttttat aca                                     253
```

<210> 958

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (65)..(65)

<223> n is a, c, g, or t

<400> 958

```
gtaggctcag cgatagtggc cctcttacag agaaacgggg agcaggacga cgggggngct   60
ggggntggcg ggggagggtg cccacaaaaa gaatcaggac ttgtactggg aaaaaaaccc   120
ctaaattaat tatatttctt ggacattccc ttcttaaca tctgagget taaaaccctg   180
atgcaaaact ctctttcag tgggtggaga aattggccga gttcaacat tcaactgcaat   240
gcctattcca aactttaat ctatctattg caaaacctga aggactgtag ttagcgggga   300
tgatgttaag tgtggccaag cgcacggcgg caagttttca agcactgagt ttctattcca   360
agatcataga ctactaaag agagtacaa atgtctcctt aatgtctct ataccagaat   420
gtaaatattt ttgtgtttt tgtaatttg ttagaattct aacacactat atacttccaa   480
```

<210> 959

<211> 323

<212> DNA

<213> Homo sapiens

<400> 959

```

tcgactctgc tgctcatggg aagaacagaa ttgctcctgc atgcaactaa ttcaataaaa   60
ctgtcttggt agctgatcgc ttggagggtc ctcttttat gttgagtgc tgctcccgg   120
catgccttca ttttgctatg gggggcaggc aggggggatg gaaaataagt agaaacaaaa   180
aagcagtggc taagatggta tagggactgt cataccagtg aagaataaaa ggggtgaagaa   240
taaaagggat atgatgacaa ggttgatcca ctcaagaat tgcttgcttt caggaagaga   300
gatgtgttc aacaagccaa cta                                     323

```

<210> 960

<211> 533

<212> DNA

<213> Homo sapiens

<400> 960

```

gagcccta atgatatgtat acagaaggta tggcagattt gaatgaaatg atccttcttc   60
tgcccttatg tcgacctgag gaaaaagatg ccaagattgc ctgatcaaa gagaaaacaa   120
aaagtcgcta ttccctgcc ttgaaaaag tgttacagag ccatggacaa gactaccttg   180
ttggcaacaa gctgagccgg gctgacatta gcctggtgga acttctctac tatgtggaag   240
agcttgactc cagccttacc tccaacttcc ctctgctgaa ggccctgaaa accagaatca   300
gcaacctgcc cacggtgaag aagtttctac agcctggcag cccaaggaag cctcccgcag   360
atgcaaaagc tttagaagaa gccagaaaga tttcagggtt ttaataaagc agccatggag   420
gctaagaaca tgcaagacca atattctaaa gtttgcaac aatgaagtgc ttacttaag   480
tgttgattgt gcctgttgta aagctaata accctttcca attatatgt aat           533

```

<210> 961

<211> 472

<212> DNA

<213> Homo sapiens

<400> 961

```

ccggcccagg ctcactgggc cagtgggagg ctggacatca gcaacaagac ctatgagact   60
gtcgccagcc tgggagcagc caccctcag ggcgagagtg aggactgtcc cccgcccttg   120
ccagtcaaaa actctctcgc gactttggtc caagggtgtg caagacatgc cagtggagat   180
cgttctgagc aaagaaagaa gggagagtaa tagaattggg agggcagaga ctaagggtt   240
ctgttccca gccctagaaa ttctatcatt gctcagcccc aatgagaaag cagatacacc   300
taagccatca tcaaccacta acatctcaac ttgccagttg ctgggtgctg ggccctggca   360
ggaatgggcc aagccaagca ggggagacta gagagcacca atggccaaca cagctgcctg   420
gctggggagg ctgtgctgtt tccctggag acctgactgg tctgtggttc cc           472

```

<210> 962

<211> 495

<212> DNA

<213> Homo sapiens

<400> 962

```

gccggtgaga tgctctatct gccggtcttg tggttccacc acgtccagca gtcccagggc   60
tgcacgcag tgaattctg gtatgacatg gaatacgacc tcaagtatag ttacttcag   120
ctgctcgact cctcaccia ggcttcaggc ctgactgat ggagcactgg tgaacaccac   180
caagcacgcc tcgggggacg gagccagccc cccctggcc aggtcgagag agcctggagt   240
gtgatgctg gctgctggcc ccgggtccag catggcttga gatcagctt ggaggatctt   300
ggaatgtgt cataaggact caaggtgcc ggaggtctg ggtgagggtt ctgaggaagt   360
tgccacacag gtgagcagag tggggatcag gtgcagcggc acctctccc agcgtgtga   420

```

tgttgggcga gtcactgcgt ctccggcatt ggtgtcctgt cagtaaagag ataataatgg 480
ctgtacctcg cgggg 495

<210> 963
<211> 120
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, or t
<400> 963

ctttccgtt tctgtctatg atgtaggctt ctgaggagaa ccnagaagct tggctttagt 60
ggtagaatga cagaacttag ggtacccttg caggctagaa caaagttctg acccttagac 120

<210> 964
<211> 494
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t
<400> 964

gacctttga agcccaatta ttgcctcaat ccagaaaagt ttacttctct ttatctgtgc 60
tttactgaca gaagggaag tcttctctcg tttttgcag ataaaattt agatgtgttg 120
cattcattgg gtttctatga gatgtggtt tatcagacaa tttttcttt tatttcacaa 180
ttactttaat atctgtaaaa taaagaatta tttaattca ttttccagt cccaaaagtt 240
aaatacaggc cacttacttc tttaaccaa tgatatagtt tggctctgtg tccccacca 300
aatctcatgt caaattgtaa tccccgatg tcagnggagg gacctggtgg gaggtgattg 360
gatcatgggg agggatttcc ccttgcctgt tctgttgata gtgaacgagt tctcacgaaa 420
tctgatggtt taaaagtga gcacttctcc ctttgcctc tcttctctgc tgtgcatgg 480
taagacgtgc cttg 494

<210> 965
<211> 324
<212> DNA
<213> Homo sapiens
<400> 965

tgattttaaa attggcctcc tcaaagtta gcgtcttgca taatgatgat gtacgtctct 60
ggcatattac attttcctt gtatatcatt attgaggta tttgtctgat atgacccaaa 120
gaggcaaaac tcagcacagt cctttctgca gtattctaaa ggtcatcaaa cttcagccta 180
gtgagtctgc ttgttgatt tggccggaca tttaagcat ggcagaagtg gtacaagaaa 240
tcatggtatt aagtgaac cacaccctt agaaaaatcc ttctattaat tcaaataatt 300
tgacgatgct tatgcggttt ctga 324

<210> 966
<211> 478

<212> DNA

<213> Homo sapiens

<400> 966

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ttcacaaact ttatactct ttctgtatat acatttttt tctttaaaaa acaactatgg   60
atcagaatag caacatttag aacactttt gttatcagtc aatatttta gatagttaga  120
acctggctct aagcctaaaa gtgggcttga ttctgcagta aatcttttac aactgcctcg  180
acacacataa acctttttaa aaatagacac tccccgaagt cttttgttg tatggtcaca  240
cactgatgct tagatgttcc agtaatctaa tatggccaca gtagtcttga tgaccaaagt  300
ccttttttc catctttaga aaactacatg ggaacaaaca gatcgaacag ttttgaagct  360
actgtgtgtg tgaatgaaca ctcttgcttt attccagaat gctgtacac tattttggat  420
tgtatatgtt ggtgtgtat ttacgctttg attcatagta acttcttatg gaattgat   478

```

<210> 967

<211> 44

<212> DNA

<213> Homo sapiens

<400> 967

```

gaaagcatgt ctgctgggtg tgaccatggt tcctctcaat aaag                   44

```

<210> 968

<211> 65

<212> DNA

<213> Homo sapiens

<400> 968

```

ggaaagcatg tctgctgggt gtgaccatgt ttctctcaa taaagttccc ctgtgacact   60
caaaa                                           65

```

<210> 969

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (33)..(33)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (45)..(54)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (168)..(168)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (203)..(257)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (304)..(304)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (306)..(306)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (348)..(362)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (427)..(427)

<223> n is a, c, g, or t

<400> 969

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gaagaagggg ccatcacagg atgccacccc tgnctgggt tgggnnnnnn nnnncacgac   60
cagcccttc ctgggtattt attctctatt tattggggat aggagaagag gcctcctgcc   120
tgggtgggac agcccttca gccccttc cctccccgc ctggccangg cagggccacc   180
ccactctacc tccttagctt tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  240
nnnnnnnnnn nnnnnnnnaga gctgacggga ggccccagct ctgaggggag ggggtccgtg  300
gtanangcct ggggccggtg gaggtcctcc agggctccct tatgtccnnn nnnnnnnnnn  360
nnggtgtgtg atgtaattag ctctgggggg cagttgggta gatgggtggg ggctcctggt  420
ggccttntgc tgcccaggcc acagccgcct ttgggtcca tcttgctaataaacactggc  480
tctgggacta gaaa                                     494
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<210> 970

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (229)..(252)

<223> n is a, c, g, or t

<400> 970

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gaaaccagg tgctggacca gggccctcag ggaggggacc ctgcggttag agtgggctag   60
gccctggctt tgccgtcag attgaacga atgtgtgtcc cttgagccca aggagagcgg   120
caggaggggt gggaccaggc tgggaggaca gagccagcag ctgcatgcc ctctgtctcc   180
ccccaccca gccctagccc tttagcctt caccctgtgc tctggaaann nnnnnnnnnn  240
nnnnnnnnnn nnaggaggag caaaaatgag ccagcaccag cgccttggtt ttgtgttagc  300
atttctct gaagtgttct gttggcaata aa                                     332
```

<210> 971

<211> 279

<212> DNA

<213> Homo sapiens

<400> 971

```

cttctacagg cttttgggaa gtaggggtgga tgtgggtagg gctgggagga gggggccaca   60
gcttaggttt ggagctctgg atgtacatac ataagtagga gcagtgggac gtgtttctgt   120
cataatgcag gcatgaaggg tggagtgaag tcaggtcata agtttcatgt ttgcttttgt   180
tttgttttgt ttttaatgta tgtacagat gttacagtct tagggatccg ggatgggaga   240
ccccacttta gaaagggtcg tcactccttt aatcctcta                               279

```

<210> 972

<211> 145

<212> DNA

<213> Homo sapiens

<400> 972

```

ctgaacgggc gactgtgtct tgactacctt tcaaaaccag cactgtgtgg gaatgtccgc   60
caggcagagc tcggagcctc attgagacag gggagagaga aagacaaaga ggggaccttc  120
ttccagatgc ctccagtt gtaac                                           145

```

<210> 973

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (200)..(204)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (230)..(230)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (235)..(235)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (239)..(239)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (357)..(357)

<223> n is a, c, g, or t

<400> 973

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agacgagtgc tgagccaaga acctcctaga ggctgtccct ggacctggag ctgcaggcat   60
cagagaacca gccctgctca cgccatgccc gccccgcct tccctcttcc ctcttccctc  120
tccctgccca gccctccctt ccttctcttg ccggcaaggc agggaccac agtggtgcc   180
tgcctccggg aggggaaggan nnnnaggag ggtgggtggg tgggaggggn ccttncctnc  240
cagggaatgt gacttccca ggccccagaa tagctcctgg acccaagccc aaggcccagc   300
ctgggacaag gctccgaggg tcggctggcc ggagctattt ttacctcccg cctccentgc  360
tggtcccccc acctgacgtc ttgtgcaga gtctgacct ggattcccc cctcacccc   420
gccccgtgtc cactcctgc ccccgcccta cctccgcccc accccatcat ctgtggacac   480

```


tggagtctgg aataaatgc

499

<210> 974

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(29)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (44)..(58)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(139)

<223> n is a, c, g, or t

<400> 974

ttgctgaaga gcaagcagag ggtcnnnnc gctgctgta caannnnnnn nnnnnnnnca 60
 tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnna ggcctctccc tctgtcagtt ccagaacttc tccctccatg 180
 acccactcta tgggaaactc ttcagcacet acctgcgccc cccacacacc tctcgaggca 240
 cctcccagac accaaatgcc tcatccccag gcaacccac tgctctggcc aatgggactg 300
 tgcaagcacc caagcagaag ggagactgag tgcctcagcc tctcaccccc tctctctcag 360
 ggcagcgcta ggggcctccc ctatgcctca gccccatctc tgctcctgtt tgaatttg 419

<210> 975

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (101)..(101)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (120)..(121)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (272)..(326)

<223> n is a, c, g, or t

<400> 975

cgcataagg gcataagtta ttgtgaacgt tttgccaat cactgetcaa cagecctgct 60
 agantttgta tgatgctgaa ttattatgca gactaattcc nccagttga gacacaccan 120
 ncttggtcac ttgtatttat tgaaactgtg gattcttgcc cgtgctgtcc ctgtattta 180
 cttaagcac tgatcactta teattcattc ggtatggttt tccctgtccc ttgtacacat 240
 tctggtatga atttgtaaaa ataacctgct annnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnncgtg cccaactgag gaacaggaga agaaatcacc 360
 aatttgggct ctcagagcta agacacactt attgattctg ttgcacattt tgcactgggt 420
 tatggcg 427

<210> 976
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (64)..(95)
 <223> n is a, c, g, or t
 <220>
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 <222> (104)..(104)
 <223> n is a, c, g, or t
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 <222> (226)..(226)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (344)..(344)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (387)..(402)
 <223> n is a, c, g, or t
 <400> 976

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 tttnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnctccc agnacccegc tgaatttctg 120
 aggccttgct taaagctcag aagtgggtta ggcatttgga aaatctgggt cacatcataa 180
 agaacttgat ttgaaatgtt ttctatagaa acaagtgcata agtgnaccg tattatactt 240
 gatgttggtc atttctcagt cctatttctc agttctatta tttagaacc tagtcagttc 300
 tttaagatta taactgggtc tacattaaaa taatgcttct cgangtcaga tttacctgt 360
 ttgctgctga gaacatctct gcctaannnn nnnnnnnnnn nnettcagtt caacatgctt 420
 ccttagcttt tcatagttgt ctgacatttc catgaaa 457

<210> 977
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, or t
 <220>
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 <222> (44)..(44)
 <223> n is a, c, g, or t
 <220>
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 <222> (53)..(53)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (73)..(74)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (95)..(96)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (108)..(123)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (351)..(351)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (364)..(378)
 <223> n is a, c, g, or t
 <400> 977

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 gtgtgtacag ccnngtcacc gtgcagcnc tgcctntnga ggacaaannnn nnnnnnnnnn 120
 nnntggaggc agtgcagggag aagcaaaaga agaaggtgga aggcgaggtg gaaatggagg 180
 tcatttgacc tgccaggcgc ccttcgcaa gagtgacgag gccccgtggg agaacggact 240
 cctcagactc tcccaaatag cggaagtcga tctctgaag gatggccaat ctgctccggc 300
 cctgtgtctc cccatcccg gtggacagac ttaacgatcc ttgctgcagt ncctccggag 360
 aggnnnnnnn nnnnnnnnga gtggggaggc cgtggagaca gtctacggaa agcgctagca 420
 gacccccgag aggggtgcagt ggagccctga gcattgtaat atgcggccca gcctataaac 480
 agcctccgtg ctt

<210> 978
 <211> 1536
 <212> DNA
 <213> Homo sapiens
 <400> 978

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gtgacgcgag gctctgcgga gaccaggagt cagactgtag gacgacctcg ggtcccacgt   60
gtccccggta ctgcccggcc ggagcccccg gcttcccggg gccggggggac cttagcggca  120
cccacacaca gcctactttc caagcggagc catgtctggt aacggcaatg cggctgcaac  180
ggcgggaagaa aacagcccaa agatgagagt gattcgcgtg ggtacccgca agagccagct  240
tgctgcata cagacggaca gtgtggtggc aacattgaaa gcctctgacc ctggcctgca  300
gtttgaaatc attgctatgt ccaccacagg ggacaagatt cttgatactg cactctctaa  360
gattggagag aaaagcctgt ttaccaagga gcttgaacat gccctggaga agaataagt  420
ggacctggtt gttcactcct tgaaggacct gccactgtg ctctctctg gttcaccat  480
cggagccatc tgcaagcggg aaaacctca tgatgctgtt gtctttcacc caaaattgt  540
tgggaagacc ctgaaacccc tgccagagaa gagtgtggtg ggaaccagct cctgccaag  600
agcagcccag ctgcagagaa agttcccgca tctggagttc aggagtattc ggggaaacct  660
caacacccgg ctctggaagc tggacgagca gcaggagttc agtgccatca tcttggaac  720
agctggcctg cagcgcatgg gctggcaca ccgggtgggg cagatcctgc accctgagga  780
atgcatgtat gctgtgggcc agggggcctt gggcgtggaa gtgcgagcca aggaccagga  840
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